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XX PS Example 2; SEQ ID NO 137; 324pp; English.
XX CC The invention comprises an antibody that specifically binds a
XX CC regeneration IV (Reg IV) protein. The invention specifically comprises
XX CC the amino acid and coding sequences of single chain antibody fragments
XX CC (scFv's) that bind Reg IV protein. The antibody of the invention is
XX CC useful for treating, preventing and ameliorating: inflammatory bowel
XX CC disorders (e.g. ulcerative colitis or Crohn's disease), diabetes (e.g.
XX CC non-insulin dependent diabetes or insulin dependent diabetes), and cancer
XX CC of the gastrointestinal tract. The antibody of the invention is also
XX CC useful for detecting the expression of a Reg IV protein. The present DNA
XX CC sequence represents a PCR primer that was used to amplify a Reg IV-
XX CC specific scfv coding sequence.
XX SQ Sequence 23 BP; 3 A; 3 C; 12 G; 5 T; 0 U; 0 Other;

Query Match      0.5%; Score 17.2; DB 1; Length 23;
Best Local Similarity 86.4%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      853 GAGGAGGAGCTGGTGGAGGCTG 874
      ||||| ||||| ||||| ||||| |||||
Db      1 GAGGTGCAGCTGGTGGAGTCTG 22

RESULT 732
ADJ93418
ID ADJ93418 standard; DNA; 23 BP.
XX AC ADJ93418;
XX DT 06-MAY-2004 (first entry)
XX DE Human BGS-42 protein-related PCR primer SeqID69.
XX KW testis-specific tubulin tyrosine-ligase-like polypeptide;
XX KW BGS-42 polypeptide; cytostatic; respiratory-gen; gastrointestinal-gen;
XX KW neuroprotective; endocrine-gen; antiinflammatory; anabolic; hypertensive;
XX KW osteopathic; nootropic; antiparkinsonian; antiarthritic; antiasthmatic;
XX KW anti-HIV; antibacterial; immunosuppressive; antiseborrheic;
XX KW dermatological; tyrosine ligase modulator; gene therapy; tubulin ligase;
XX KW tubulin-carboxypeptidase; cellular proliferation; reproductive disorder;
XX KW testicular disorder; testicular cancer; pulmonary disorder; lung cancer;
XX KW gastrointestinal disorder; colon cancer; stomach cancer; neural disorder;
XX KW brain cancer; liver cancer; proliferative condition; testis; lung;
XX KW small intestine; brain; lymph tissue; infertility; Cushing's syndrome;
XX KW emphysema; pneumonia; Addison's disease; acromegaly; Alzheimer's disease;
XX KW Parkinson's disease; immunological disorder; arthritis; asthma; AIDS;
XX KW sepsis; acne; Sjogren's disease; scleroderma; human; PCR; primer; ss.
XX OS Homo sapiens.
XX XX WO2004005487-A2.
XX PN 15-JAN-2004.
XX PD 09-JUL-2003; 2003WO-US021605.
XX PF 09-JUL-2002; 2002US-03994725P.
XX PR (BRIM ) BRISTOL-MYERS SQUIBB CO.
XX PA Feder JN, Wu S, Nelson TC;
XX PI WPI; 2004-099381/10.
XX DR New testis-specific tubulin tyrosine-ligase-like BGS-42 polypeptide,
XX XX useful for preventing, treating or ameliorating a medical condition, e.g.
XX PT aberrant cellular proliferation, reproductive disorders or testicular
XX PT disorders.
XX PS Example 34; SEQ ID NO 69; 343pp; English.

XX CC This invention relates to a novel testis-specific tubulin tyrosine-ligase
XX CC -like polypeptide, designated the BGS-42 polypeptide. The invention may
XX CC be useful for the development of compounds with a cytostatic, respiratory
XX CC -gen, gastrointestinal-gen, neuroprotective, endocrine-gen,
XX CC antiinflammatory, anabolic, hypertensive, osteopathic, nootropic,
XX CC antiparkinsonian, antiarthritic, antiasthmatic, anti-HIV, antibacterial,
XX CC immunosuppressive, antiseborrheic or dermatological activity acting as
XX CC tyrosine ligase modulators. In addition, the disclosed sequences may be
XX CC used for gene therapy. The BGS-42 polypeptide or polynucleotide can be
XX CC used for diagnosing a pathological condition or a susceptibility to a
XX CC pathological condition in a subject, and for preventing, treating or
XX CC ameliorating a medical condition, such as a disorder related to aberrant
XX CC tubulin ligase activity, a disorder related to aberrant tubulin-
XX CC carboxypeptidase activity, aberrant cellular proliferation, reproductive
XX CC disorders, testicular disorders, testicular cancer, pulmonary disorders,
XX CC lung cancer, gastrointestinal disorders, colon cancer, stomach cancer,
XX CC neural disorders, brain cancer, liver cancer, or proliferative condition
XX CC of the testis, lung, small intestine, brain or lymph tissue. The BGS-42
XX CC polypeptide, polynucleotide, or their modulators are also useful for
XX CC treating infertility, Cushing's syndrome, emphysema, pneumonia, Addison's
XX CC disease, acromegaly, Alzheimer's disease, or Parkinson's disease. The BGS
XX CC -42 polypeptide can be used as a preventive agent for immunological
XX CC disorders including arthritis, asthma, AIDS, sepsis, acne, Sjogren's
XX CC disease or scleroderma. The antibodies may be used to purify, detect and
XX CC target the BGS-42 polypeptides. The present sequence is that of a PCR
XX CC primer which was used in the exemplification of the invention.
XX SQ Sequence 23 BP; 3 A; 3 C; 12 G; 5 T; 0 U; 0 Other;

Query Match      0.5%; Score 17.2; DB 1; Length 23;
Best Local Similarity 86.4%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      853 GAGGAGGAGCTGGTGGAGGCTG 874
      ||||| ||||| ||||| ||||| |||||
Db      1 GAGGTGCAGCTGGTGGAGTCTG 22

RESULT 733
ADL76556
ID ADL76556 standard; DNA; 23 BP.
XX AC ADL76556;
XX XX 20-MAY-2004 (first entry)
XX DE Human heavy variable primer, Hu VH3 5'.
XX KW albumin fusion protein; cytostatic; antianaemic; antiarthritic;
XX KW antiasthmatic; anti-HIV; immunosuppressive; antiinflammatory;
XX KW antipsoriatic; antibacterial; osteopathic; dermatological; antigout;
XX KW immunomodulator; antiarrhythmic; cardiac; nootropic; antilipemic;
XX KW nephrotropic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;
XX KW antidiabetic; anabolic; hypertensive; vulnery; gene therapy; cancer;
XX KW reproductive system disorder; primer; ss.
XX OS Homo sapiens.
XX XX US2004010134-A1.
XX PN 15-JAN-2004.
XX PD 12-APR-2001; 2001US-00833245.
XX PF 12-APR-2000; 2000US-0229358P.
XX PR 25-APR-2000; 2000US-0199384P.
XX PR 21-DEC-2000; 2000US-0256931P.
XX XX (ROSE/) ROSEN C A.
XX PA (HASE/) HASELTINE W A.
XX XX Rosen CA, Haseltine WA;
XX PI

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CC capturing biological particles such as cells, portions of cells, cell  
 CC membranes, viruses, viral capsids, viral particles, bacterial cells,  
 CC subcellular compartments, organelles and micelles, prokaryotic cells,  
 CC eukaryotic cells, intracellular particles, nuclei, cell membranes, cell  
 CC membrane fragments, nuclear membranes, nuclear membranes fragments, viral  
 CC vectors or viral capsids with or without packaged nucleic acid, phage,  
 CC phage vectors, phage capsids with or without encapsulated nucleotide  
 CC acid, liposomes and other micellar agents. The biological particles are  
 CC cells chosen from immune cells, neurons, cancer cells, bacterial cells  
 CC and infected cells, subcellular compartment, organelles, viral particles  
 CC or pathogens. The cells are dendritic cells, T cells, or B cells. The  
 CC method is also useful for identifying molecules that interact with  
 CC infectious agents, for profiling the surface of a biological particles,  
 CC for identifying a modulator of an interaction among proteins in the  
 CC biological particle, for identifying molecules that modulates the  
 CC trafficking, activity or functional or structural property in the  
 CC biological particle, and for mapping epitopes of molecules displayed on  
 CC the surface of a biological particles. The method is also useful for  
 CC sorting biological particles, for identifying a receptor on the surface  
 CC of biological particle that transduces a signal from a polypeptide, and  
 CC for identifying the molecule that interacts with an apically-localized  
 CC molecule on a biological particle. The present sequence was used to  
 CC illustrate the invention.

XX  
 SQ Sequence 23 BP; 3 A; 3 C; 12 G; 5 T; 0 U; 0 Other;

Query Match 0.5%; Score 17.2; DB 1; Length 23;  
 Best Local Similarity 86.4%; Pred. No. 1.1e+03;  
 Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGAGGCTG 874  
 ||||| ||||| ||||| ||||| |||||  
 Db 1 GAGTGCGAGCTGGTGAGCTG 22

RESULT 738  
 AAX59719  
 ID AAX59719 standard; DNA; 24 BP.  
 AC AAX59719;  
 XX  
 DT 22-JUL-1999 (first entry)  
 XX  
 DE Modified DNA oligonucleotide of the invention.  
 XX  
 KW Oligodeoxyribonucleotide; intersubunit linkage;  
 KW phosphoramidate intersubunit; antisense activity; nuclease resistant;  
 KW in-vitro cell growth inhibition assay; infection;  
 KW smooth muscle cell proliferation disorder; inflammatory process;  
 KW genetic disorder; cancer; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9525814-A1.  
 XX  
 PD 28-SEP-1995.  
 XX  
 PF 20-MAR-1995; 95WO-US003575.  
 XX  
 PR 18-MAR-1994; 94US-00210505.  
 PR 18-MAR-1994; 94US-00214599.  
 XX  
 PA (LYNX-) LYNX THERAPEUTICS INC.  
 XX  
 PI Gryaznov SM, Schultz RG, Chen J;  
 DR WPI; 1995-344627/44.  
 XX  
 PT Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance  
 PT toward phosphodiesterase digestion, and form stable duplexes with DNA and  
 PT RNA strands.  
 XX  
 PS Disclosure; Page 54; 101pp; English.

XX The specification describes oligodeoxyribonucleotides having contiguous  
 CC nucleoside subunits joined by intersubunit linkages, where at least 3  
 CC contiguous subunits are joined by phosphoramidate intersubunits. The  
 CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective  
 CC to form a duplex with a target nucleic acid molecule. The  
 CC oligodeoxyribonucleotides are more resistant to nuclease digestion and  
 CC have improved RNA and dsDNA hybridisation characteristics relative to  
 CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They  
 CC also have excellent antisense activity against complementary mRNA targets  
 CC in in-vitro cell growth inhibition assays. They also exhibit low  
 CC cytotoxicity. They may be used in diagnostic and therapeutic  
 CC applications, e.g., in combatting infections agents such as bacteria,  
 CC viruses, etc. or in treatment of smooth muscle cell proliferation  
 CC disorders, inflammatory processes, certain genetic disorders, cancers,  
 CC etc. The present sequence represents an oligonucleotide of the invention

XX  
 SQ Sequence 24 BP; 10 A; 0 C; 0 G; 14 T; 0 U; 0 Other;

Query Match 0.5%; Score 17.2; DB 1; Length 24;  
 Best Local Similarity 86.4%; Pred. No. 1.1e+03;  
 Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2823 TATATATACATATATATATA 2844  
 ||||| ||||| ||||| ||||| |||||  
 Db 3 TATATATATTTTATATATA 24

RESULT 739  
 AAX59721  
 ID AAX59721 standard; DNA; 24 BP.  
 AC AAX59721;  
 XX  
 DT 22-JUL-1999 (first entry)  
 XX  
 DE Modified oligonucleotide containing N3'-P5' phosphoramidates.  
 XX  
 KW Oligodeoxyribonucleotide; intersubunit linkage;  
 KW phosphoramidate intersubunit; antisense activity; nuclease resistant;  
 KW in-vitro cell growth inhibition assay; infection;  
 KW smooth muscle cell proliferation disorder; inflammatory process;  
 KW genetic disorder; cancer; ss.  
 XX  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..10  
 FT /tag= a  
 FT /note= "each base is linked by N3'-P5' phosphoramidate  
 FT linkages"  
 FT modified\_base 15..24  
 FT /tag= a  
 FT /note= "each base is linked by N3'-P5' phosphoramidate  
 FT linkages"  
 XX  
 PN WO9525814-A1.  
 XX  
 PD 28-SEP-1995.  
 XX  
 PF 20-MAR-1995; 95WO-US003575.  
 XX  
 PR 18-MAR-1994; 94US-00210505.  
 PR 18-MAR-1994; 94US-00214599.  
 XX  
 PA (LYNX-) LYNX THERAPEUTICS INC.  
 XX  
 PI Gryaznov SM, Schultz RG, Chen J;  
 DR WPI; 1995-344627/44.  
 XX  
 PT Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance  
 PT toward phosphodiesterase digestion, and form stable duplexes with DNA and



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PT RNA strands.
XX PS Disclosure; Page 57; 101pp; English.
XX CC The specification describes oligodeoxyribonucleotides having contiguous
XX CC nucleoside subunits joined by interunit linkages, where at least 3
XX CC contiguous subunits are joined by phosphoramidate intersubunits. The
XX CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective
XX CC to form a duplex with a target nucleic acid molecule. The
XX CC oligodeoxyribonucleotides are more resistant to nuclease digestion and
XX CC have improved RNA and dsDNA hybridization characteristics, relative to
XX CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They
XX CC also have excellent antisense activity against complementary mRNA targets
XX CC in in-vitro cell growth inhibition assays. They also exhibit low
XX CC cytotoxicity. They may be used in diagnostic and therapeutic
XX CC applications, e.g., in combatting infectious agents such as bacteria,
XX CC viruses, etc. or in treatment of smooth muscle cell proliferation
XX CC disorders, inflammatory processes, certain genetic disorders, cancers,
XX CC etc. . The present sequence represents an oligonucleotide of the invention
XX
SQ Sequence 24 BP; 10 A; 0 C; 0 G; 14 T; 0 U; 0 Other;
  Query Match      0.5%; Score 17.2; DB 1; Length 24;
  Best Local Similarity 86.4%; Pred. No. 1.1e+03;
  Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2823 TATATACATATATATATATATA 2844
  DB 3 TATATATATTTTATATATATA 24

RESULT 740
AAQ15061
ID AAQ15061 standard; DNA; 24 BP.
XX AC AAQ15061;
XX DT 25-MAR-2003 (revised)
XX DT 19-FEB-1992 (first entry)
XX DE T-cell receptor primer V-alpha 10.
XX KW TCR; multiple sclerosis; MS; brain; amplification; primer; ss.
XX OS Synthetic.
XX PN WO9117268-A.
XX PD 14-NOV-1991.
XX PF 01-MAY-1990; 90US-00517245.
XX PR 01-MAY-1990; 90US-00517245.
XX PA (STRD ) UNIV. LELAND STANFORD JUNIOR.
XX PI Steinman L, Oksenberg J, Bernard C;
XX WI; 1991-353787/48.
XX DR
XX PT Method for diagnosing T-cell associated disease - comprises identifying
XX PT rearranged variable region of appropriate T-cell also T-cell compns. for
XX PT treating neo:proliferative conditions.
XX PS Disclosure; Page 31; 53pp; English.
XX CC TCR V-alpha and V-beta rearrangements were studied in 16 MS brains and in
XX CC 10 control brains. TCRValpha-Jalpha-Calpha and Vbeta-Dbeta- Jbeta-Cbeta
XX CC rearrangements were confirmed with Southern blotting and hybridisation of
XX CC the PCR product obtained by amplification with one of 18 Valpha or 21 of
XX CC Vbeta specific oligonucleotide primers. See AAQ15052-92 for Valpha,
XX CC Vbeta, Calpha and Cbeta primers. (Updated on 25-MAR-2003 to correct PA
XX CC field.)

XX SQ Sequence 24 BP; 5 A; 9 C; 7 G; 3 T; 0 U; 0 Other;
  Query Match      0.5%; Score 17.2; DB 1; Length 24;
  Best Local Similarity 86.4%; Pred. No. 1.1e+03;
  Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2240 ACCCTGCTGCTGTGTGCACAGCC 2261
  DB 1 ACCCAGCTGCTGGAGCAGAGCC 22

RESULT 741
AAQ97706/C
ID AAQ97706 standard; cDNA; 24 BP.
XX AC AAQ97706;
XX DT 06-FEB-1996 (first entry)
XX DE Rat melanocortin receptor MC-5 amplification primer #3.
XX KW Rat; melanocortin receptor; probe; dopamine; striatum; human; primer;
XX KW PCR; amplification; expression vector; cardiovascular; renal; motor;
XX KW neurological; psychiatric; gastro-intestinal; neuro-endocrinal;
XX KW arterial hypertension; disturbed intestinal function; secretory disorder;
XX KW dysfunction; adrenal gland; ss.
XX OS Synthetic.
XX PN FR2713645-A1.
XX PD 16-JUN-1995.
XX PF 08-DEC-1993; 93FR-00014732.
XX PR 08-DEC-1993; 93FR-00014732.
XX PA (INRM ) INST NAT SANTE & RECH MEDICALE.
XX PI Griffon N, Sokoloff P, Mignon V, Diaz J, Facchinetti P;
XX PI Schwartz J;
XX WI; 1995-217531/29.
XX DR
XX PT New rat and human melanocortin receptor MC-5 - and related nucleic acid,
XX PT transformed cells etc. useful for screening cpds. and for diagnosis and
XX PT treatment of e.g. cardiovascular disease.
XX PS Example 3; Page 17; 37pp; French.
XX CC The primers and probes AAQ97705-8 were used to study the expression of
XX CC the rat melanocortin receptor gene in rat brains. Primers AAQ97705-6 were
XX CC used to PCR amplify a 225 bp fragment of the rat melanocortin receptor MC
XX CC -5 coding sequence (AAQ97701). Detection of this fragment was carried out
XX CC using the probes AAQ97707-8. Probes designed on the sequences of the rat
XX CC or human (AAQ97702) receptor genes can be used in diagnosis of
XX CC cardiovascular, renal, neurological, psychiatric, gastro-intestinal or
XX CC neuro-endocrinal diseases (e.g. arterial hypertension, disturbed
XX CC intestinal function, motor and secretory disorders, dysfunction of the
XX CC adrenal gland, etc.) associated with qualitative or quantitative
XX CC anomalies of the MC-5 receptor
XX
SQ Sequence 24 BP; 4 A; 9 C; 3 G; 8 T; 0 U; 0 Other;
  Query Match      0.5%; Score 17.2; DB 1; Length 24;
  Best Local Similarity 86.4%; Pred. No. 1.1e+03;
  Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1351 ATGGAGATGATGAAGATGATCG 1372
  DB 24 ATGGAGATGAGCAGCAGATCG 3

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RESULT 742  
AAT33122/c  
ID AAT33122 standard; DNA; 17 BP.  
XX  
AC AAT33122;  
XX  
DT 07-NOV-1996 (first entry)  
XX  
DE 3' primer to amplify 160 bp probe for Tie gene.  
XX  
KW anti-Tie monoclonal antibody; extracellular domain; hybridoma;  
KW Tyrosine kinase-Immunoglobulin like domain-EGF homology domain;  
KW epidermal growth factor; leukaemia; diagnosis; separation;  
KW haematopoietic stem cells; detection; primer; probe; PCR; amplify;  
KW polymerase chain reaction; ss.  
XX  
OS Synthetic.  
XX  
PN JP08143598-A.  
XX  
PD 04-JUN-1996.  
XX  
PF 17-NOV-1994; 94JP-00308249.  
XX  
PR 17-NOV-1994; 94JP-00308249.  
XX  
PA (YAMA ) YAMANOUCHI PHARM CO LTD.  
XX  
DR WPI; 1996-318959/32.  
XX  
PT Anti-Tie monoclonal antibody and hybridoma producing it - useful in  
PT diagnosis of leukaemia and detection of haematopoietic stem cells.  
XX  
PS Example 1; Page 5; 19pp; Japanese.  
XX  
CC The invention concerns an anti-Tie (Tyrosine kinase-Immunoglobulin like  
CC domain-EGF (epidermal growth factor) homology domain) monoclonal antibody  
CC (MAB) which specifically recognises the Tie extracellular domain, and a  
CC hybridoma producing it. The MAB can be used in the diagnosis of leukaemia  
CC and also in separation and concentration of haematopoietic stem cells.  
CC The MAB can also be used to detect and determine levels of (soluble) Tie.  
CC AAT33121-22 are primers used to amplify a 160 bp probe based on a  
CC tyrosine kinase domain, to detect the human Tie gene from a UT-7 cDNA  
CC library. A 3933 bp cDNA clone, ptk-1, was identified, encoding a 1138  
CC amino acid residue protein  
XX  
SQ Sequence 17 BP; 5 A; 6 C; 4 G; 2 T; 0 U; 0 Other;  
Query Match 0.4%; Score 17; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1765 GAGGCTTGTGTGACCG 1781  
Db 17 GAGGCTTGTGTGACCG 1  
RESULT 743  
AAD17596  
ID AAD17596 standard; DNA; 17 BP.  
XX  
AC AAD17596;  
XX  
DT 10-DEC-2001 (first entry)  
XX  
DE 5' variation generator oligonucleotide PCR primer #11.  
XX  
KW Genomic DNA analysis; 5' variation generator; 3' fragment generator;  
KW endangered animal identification; PCR primer; ss.  
XX  
OS Unidentified.  
XX

PN EP1130114-A1.  
XX  
PD 05-SEP-2001.  
XX  
PF 03-MAR-2000; 2000EP-00200757.  
XX  
PR 03-MAR-2000; 2000EP-00200757.  
XX  
PA (VHAE-) VAN HAERINGEN LAB BV.  
XX  
PI Van Haringen H, Van Haringen WA;  
XX  
DR WPI; 2001-572636/65.  
XX  
PT Analyzing genomic DNA in a sample, useful for analyzing genes of  
PT organisms (e.g. a species or individual) or identifying endangered  
PT animals or plants, by using oligonucleotide primers comprising universal  
PT variable fragments.  
XX  
PS Example 1; Page 6; 23pp; English.  
XX  
CC The patent discloses a method and associated kit for analysing genomic  
CC DNA in a sample. The method comprises conducting a nucleic acid  
CC amplification on the genomic DNA in the sample using both first and  
CC second oligonucleotide primer to produce DNA fragments based on repeat  
CC sequences on at least one end of the genomic DNA. The first primer is a  
CC 5' variation generator including a repeat sequence and at least one non-  
CC repeat nucleotide. The second oligonucleotide primer is a 3' fragment  
CC generator starting within such a genetic distance that amplification of  
CC the genomic DNA can be performed and preferably includes inosine. The  
CC method is useful for the genetic analysis of an individual organism,  
CC particularly of a species or individual. It is also useful for the rapid  
CC and straight forward identification of endangered animals or plants. The  
CC present DNA sequence is a 5' variation generator oligonucleotide PCR  
CC primer  
XX  
SQ Sequence 17 BP; 0 A; 1 C; 8 G; 8 T; 0 U; 0 Other;  
Query Match 0.4%; Score 17; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2317 CTGTGTGTGTGTGTGTG 2333  
Db 1 CTGTGTGTGTGTGTGTG 17  
RESULT 744  
AAD17598/c  
ID AAD17598 standard; DNA; 17 BP.  
XX  
AC AAD17598;  
XX  
DT 10-DEC-2001 (first entry)  
XX  
DE 5' variation generator oligonucleotide PCR primer #13.  
XX  
KW Genomic DNA analysis; 5' variation generator; 3' fragment generator;  
KW endangered animal identification; PCR primer; ss.  
XX  
OS Unidentified.  
XX  
PN EP1130114-A1.  
XX  
PD 05-SEP-2001.  
XX  
PF 03-MAR-2000; 2000EP-00200757.  
XX  
PR 03-MAR-2000; 2000EP-00200757.  
XX  
PA (VHAE-) VAN HAERINGEN LAB BV.  
XX  
PI Van Haringen H, Van Haringen WA;

XX WPI; 2001-572636/65.  
XX Analyzing genomic DNA in a sample, useful for analyzing genes of  
PT organisms (e.g. a species or individual) or identifying endangered  
PT animals or plants, by using oligonucleotide primers comprising universal  
PT variable fragments.  
XX Example 1; Page 6; 23pp; English.  
XX The patent discloses a method and associated kit for analysing genomic  
CC DNA in a sample. The method comprises conducting a nucleic acid  
CC amplification on the genomic DNA in the sample using both first and  
CC second oligonucleotide primer to produce DNA fragments based on repeat  
CC sequences on at least one end of the genomic DNA. The first primer is a  
CC 5' variation generator including a repeat sequence and at least one non-  
CC repeat nucleotide. The second oligonucleotide primer is a 3' fragment  
CC generator starting within such a genetic distance that amplification of  
CC the genomic DNA can be performed and preferably includes inosine. The  
CC method is useful for the genetic analysis of an individual organism,  
CC particularly of a species or individual. It is also useful for the rapid  
CC and straight forward identification of endangered animals or plants. The  
CC present DNA sequence is a 5' variation generator oligonucleotide PCR  
CC primer  
XX Sequence 17 BP; 8 A; 8 C; 1 G; 0 T; 0 U; 0 Other;  
SQ Query Match 0.4%; Score 17; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2318 TGTGTGTGTGTGTGTGC 2334  
DB 17 TGTGTGTGTGTGTGTGC 1  
RESULT 745  
AAD34803  
ID AAD34803 standard; DNA; 17 BP.  
XX AAD34803;  
AC AAD34803;  
XX 16-JUL-2002 (first entry)  
XX Human FGFR3 allele detecting sense PCR primer.  
XX Human; chondrodysplasia; achondroplasia; transgenic mouse; therapy;  
KW fibroblast growth factor receptor 3; FGFR3; limb; midface hypoplasia;  
KW large skull; drug screening; drug development; transgenic; PCR; primer;  
KW ss.  
XX Homo sapiens.  
XX US6265632-B1.  
PN 24-JUL-2001.  
XX 26-AUG-1999; 99US-00383630.  
XX 27-AUG-1998; 98IL-00125958.  
XX (YEDA ) YEDA RES & DEV CO LTD.  
PA (PROC-) PROCHON BIOTECH LTD.  
XX Yayon A, Segev O;  
PI WPI; 2001-463946/50.  
XX New transgenic mice having a genetically modified fibroblast growth  
PT factor receptor gene, useful as a model for human chondrodysplasia, e.g.  
PT achondroplasia characterized by shortening of the limbs, midface  
PT hypoplasia or large skull.  
XX

PS Example; Col 14; 49pp; English.  
XX The invention relates to an animal model for chondrodysplasia, more  
CC particularly, to a transgenic mouse model for achondroplasia. This  
CC transgenic mouse contains a fibroblast growth factor receptor 3 (FGFR3)  
CC gene including a G to A point mutation changing Gly to Arg in codon 380  
CC in its genome. The transgenic mouse is useful as a model for FGFR-  
CC associated chondrodysplasia, particularly FGFR3 achondroplasia, e.g.  
CC shortening of the limbs, midface hypoplasia and large skull. This model  
CC may be exploited to gain better understanding of the disease and as an  
CC experimental model with which experimental therapy to chondrodysplasias  
CC can be exercised. The transgenic mouse is particularly useful as a tool  
CC for screening, developing and evaluating drugs with a potential of  
CC relieving or abolishing chondrodysplasia syndromes and/or symptoms. The  
CC present sequence is a PCR primer used to detect human FGFR3 allele  
XX Sequence 17 BP; 3 A; 5 C; 6 G; 3 T; 0 U; 0 Other;  
SQ Query Match 0.4%; Score 17; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 455 CCTGCGTCGTGCGAGAAC 471  
DB 1 CCTGCGTCGTGCGAGAAC 17  
RESULT 746  
AAD55412  
ID AAD55412 standard; DNA; 17 BP.  
XX AAD55412;  
AC AAD55412;  
XX 07-AUG-2003 (first entry)  
XX Human FGFR-3 DNA specific forward PCR primer.  
XX Human; antisense; fibroblast growth factor receptor 3; prophylaxis;  
KW developmental disorder; hyperproliferative disorder; antisense therapy;  
KW FGFR-3; ACH; JTK4; CEK2; cancer; PCR; primer; ss.  
XX Homo sapiens.  
XX WO2003023004-A2.  
PN 20-MAR-2003.  
XX 06-SEP-2002; 2002WO-US028549.  
XX 10-SEP-2001; 2001US-00953047.  
XX (ISIS-) ISIS PHARM INC.  
XX Monia BP, Wyatt JR;  
PI WPI; 2003-313244/30.  
XX Novel compound targeted to a nucleic acid molecule encoding fibroblast  
PT growth factor receptor 3, useful for inhibiting the expression of the  
PT receptor and for treating an animal having cancer or developmental  
PT disorder.  
XX Example 13; Page 76; 120pp; English.  
XX The invention relates to antisense compounds targetted to a nucleic acid  
CC molecule encoding fibroblast growth factor (FGF) receptor 3 (also known  
CC as FGFR-3, ACH, JTK4 and CEK2) to inhibit its expression. Antisense  
CC compounds of the invention are useful for treating diseases or conditions  
CC associated with FGFR-3 such as developmental disorders or  
CC hyperproliferative disorders, especially cancer of colorectal, bladder,  
CC bone, lung, cervical, breast or skin. They are useful as research  
CC reagents, therapeutics, prophylaxis, kits and diagnostics, and as tools  
CC in differential and/or combinatorial analyses to elucidate expression

CC patterns of a portion of the genes expressed within cells and tissues.  
 CC They are also useful in antisense therapy. The present sequence is human  
 CC FGFR-3 DNA specific PCR primer. This primer is used in the  
 CC exemplification of the invention

XX SQ Sequence 17 BP; 4 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 8e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1245 GGCCATCGGCATTGACA 1261  
 |||||  
 Db 1 GGCCATCGGCATTGACA 17

RESULT 747  
 AAQ34125  
 ID AAQ34125 standard; DNA; 18 BP.  
 XX AAQ34125;  
 AC AAQ34125;  
 XX 25-MAR-2003 (revised)  
 DT 02-FEB-1993 (first entry)  
 XX Sequence of a microsatellite from clone TGLA69.  
 DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;  
 KW genetic mapping; traits; amplification; ss.  
 XX Bos taurus.  
 OS WO9213102-A1.  
 PN 06-AUG-1992.  
 XX 15-JAN-1992; 92WO-US000340.  
 PF 15-JAN-1991; 91US-00642342.  
 PR (GENM-) GENMARK.  
 XX Georges M, Massey JM;  
 PI WPI; 1992-284684/34.  
 DR Polymorphic bovine DNA markers - used in genetic identification, gene  
 PT mapping, and selective breeding.  
 XX Table 7; Page 381; 517pp; English.

CC The sequence is that of a bovine microsatellite sequence obt'd. by  
 CC screening a library of bovine MbOI DNA fragments of between 250 and 500  
 CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50  
 CC clones cross-hybridised. Assuming independent distribution of  
 CC microsatellites and MbOI sites, the frequency of (T6)n > 9 microsatellites  
 CC in the bovine genome is estimated at >100, 000. The sequence information  
 CC for ca. 230 such bovine microsatellites is summarised in the  
 CC specification and indexed herein (see below). The sequences upstream and  
 CC downstream of the microsatellite sequence were used to generate the  
 CC required PCR primers for in vitro amplification of the corresp.  
 CC microsatellite (using the program OPTIPRIM). The microsatellites may be  
 CC used to identify individuals, for parentage testing, and in the genetic  
 CC mapping of economic trait loci, or genes involved in the determination of  
 CC economically important traits esp. in cattle, to allow selective  
 CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN  
 CC field.)  
 XX Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;  
 SQ Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1245 GGCCATCGGCATTGACA 1261  
 |||||  
 Db 1 GGCCATCGGCATTGACA 17

RESULT 749  
 AAQ33950  
 ID AAQ33950 standard; DNA; 18 BP.  
 XX AAQ33950;  
 AC AAQ33950;  
 XX 25-MAR-2003 (revised)  
 DT 02-FEB-1993 (first entry)  
 XX Microsatellite sequence from clone TGLA141.  
 DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;  
 KW genetic mapping; traits; amplification; ss.  
 XX Bos taurus.  
 OS WO9213102-A1.  
 PN 06-AUG-1992.  
 XX 15-JAN-1992; 92WO-US000340.  
 PF 15-JAN-1991; 91US-00642342.  
 PR (GENM-) GENMARK.  
 XX Georges M, Massey JM;  
 PI WPI; 1992-284684/34.  
 DR Polymorphic bovine DNA markers - used in genetic identification, gene  
 PT mapping, and selective breeding.  
 XX Table 7; Page 219; 517pp; English.

CC The sequence is that of a bovine microsatellite sequence obt'd. by  
 CC screening a library of bovine MbOI DNA fragments of between 250 and 500  
 CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50  
 CC clones cross-hybridised. Assuming independent distribution of  
 CC microsatellites and MbOI sites, the frequency of (T6)n > 9 microsatellites  
 CC in the bovine genome is estimated at >100, 000. The sequence information  
 CC for ca. 230 such bovine microsatellites is summarised in the  
 CC specification and indexed herein (see below). The sequences upstream and  
 CC downstream of the microsatellite sequence were used to generate the  
 CC required PCR primers for in vitro amplification of the corresp.  
 CC microsatellite (using the program OPTIPRIM). The microsatellites may be  
 CC used to identify individuals, for parentage testing, and in the genetic  
 CC mapping of economic trait loci, or genes involved in the determination of  
 CC economically important traits esp. in cattle, to allow selective  
 CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN  
 CC field.)  
 XX Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;  
 SQ Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351  
 |||||  
 Db 1 GTGTGTGTGTGTGTGTG 17

RESULT 749  
 AAQ33722  
 ID AAQ33722 standard; DNA; 18 BP.  
 XX AAQ33722;  
 AC AAQ33722;  
 XX 25-MAR-2003 (revised)  
 DT 02-FEB-1993 (first entry)  
 XX Microsatellite sequence from clone TGLA141.  
 DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;  
 KW genetic mapping; traits; amplification; ss.  
 XX Bos taurus.  
 OS WO9213102-A1.  
 PN 06-AUG-1992.  
 XX 15-JAN-1992; 92WO-US000340.  
 PF 15-JAN-1991; 91US-00642342.  
 PR (GENM-) GENMARK.  
 XX Georges M, Massey JM;  
 PI WPI; 1992-284684/34.  
 DR Polymorphic bovine DNA markers - used in genetic identification, gene  
 PT mapping, and selective breeding.  
 XX Table 7; Page 219; 517pp; English.

CC The sequence is that of a bovine microsatellite sequence obt'd. by  
 CC screening a library of bovine MbOI DNA fragments of between 250 and 500  
 CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50  
 CC clones cross-hybridised. Assuming independent distribution of  
 CC microsatellites and MbOI sites, the frequency of (T6)n > 9 microsatellites  
 CC in the bovine genome is estimated at >100, 000. The sequence information  
 CC for ca. 230 such bovine microsatellites is summarised in the  
 CC specification and indexed herein (see below). The sequences upstream and  
 CC downstream of the microsatellite sequence were used to generate the  
 CC required PCR primers for in vitro amplification of the corresp.  
 CC microsatellite (using the program OPTIPRIM). The microsatellites may be  
 CC used to identify individuals, for parentage testing, and in the genetic  
 CC mapping of economic trait loci, or genes involved in the determination of  
 CC economically important traits esp. in cattle, to allow selective  
 CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN  
 CC field.)  
 XX Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;  
 SQ Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351  
 |||||  
 Db 1 GTGTGTGTGTGTGTGTG 17

RESULT 749  
 AAQ33950  
 ID AAQ33950 standard; DNA; 18 BP.  
 XX AAQ33950;  
 AC AAQ33950;  
 XX 25-MAR-2003 (revised)  
 DT 02-FEB-1993 (first entry)  
 XX Microsatellite sequence from clone TGLA141.  
 DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;  
 KW genetic mapping; traits; amplification; ss.  
 XX Bos taurus.  
 OS WO9213102-A1.  
 PN 06-AUG-1992.  
 XX 15-JAN-1992; 92WO-US000340.  
 PF 15-JAN-1991; 91US-00642342.  
 PR (GENM-) GENMARK.  
 XX Georges M, Massey JM;  
 PI WPI; 1992-284684/34.  
 DR Polymorphic bovine DNA markers - used in genetic identification, gene  
 PT mapping, and selective breeding.  
 XX Table 7; Page 219; 517pp; English.



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XX EP552545-A1.
PN
XX
XX 28-JUL-1993.
PD
XX
XX 09-DEC-1992; 92EP-00311242.
PF
XX
XX 17-JAN-1992; 92US-00826930.
PR
XX
XX (PION-) PIONEER HI-BRED INT INC.
PA
XX
XX Grant D;
PI
XX
XX WPI; 1993-236281/30.
DR
XX
XX Detecting genetic variation between organisms - by detecting
PT polymorphisms in simple sequence repeats in DNA of organisms.
PT
XX
XX Disclosure; Page 5; 8pp; English.
PS
XX
XX A (CA)9 simple sequence repeat is used to illustrate the novel method for
CC detecting SSR polymorphisms without the need for direct sequencing or gel
CC electrophoresis. The length of a particular repeat region (i.e. number of
CC repeats) can be highly polymorphic; the sequences flanking the repeat
CC region, however, are conserved. Detection of a SSR of a specific length
CC is achieved by successful ligation of two oligonucleotides, one being
CC exactly complementary to the repeat region and one of its conserved
CC flanking sequences (i.e. comprising the sequence (GT)9) and the other
CC being complementary to the other conserved flanking sequence. (Updated on
CC 10-MAR-2003 to add missing OS field.) (Updated on 25-MAR-2003 to correct
CC PN field.)
XX
XX Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2335 GTGTGTGTGTGTGTGTG 2351
DB 1 GTGTGTGTGTGTGTGTG 17

RESULT 752
AAQ46588/C
ID AAQ46588 standard; DNA; 18 BP.
XX
XX AAQ46588;
AC
XX
XX 25-MAR-2003 (revised)
DT
XX 10-MAR-2003 (revised)
DT
XX 23-DEC-1993 (first entry)
DT
XX
XX Simple sequence repeat (CA)9.
DE
XX
XX Microsatellite; simple sequence repeat; SSR; polymorphism; variation;
KW genetic marker; human genome; mapping; ligation reaction; ss.
KW
XX
XX Synthetic.
OS
XX
XX Key Location/Qualifiers
FH repeat_region 1..18
FT /*tag= a
FT /*note= "SSR"
FT repeat_unit 1..2
FT /*tag= b
FT /*rpt_type= TANDEM
FT
XX
XX EP552545-A1.
PN
XX
XX 28-JUL-1993.
PD
XX
XX 09-DEC-1992; 92EP-00311242.
PF

```

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XX 17-JAN-1992; 92US-00826930.
PR
XX
XX (PION-) PIONEER HI-BRED INT INC.
PA
XX
XX Grant D;
PI
XX
XX WPI; 1993-236281/30.
DR
XX
XX Detecting genetic variation between organisms - by detecting
PT polymorphisms in simple sequence repeats in DNA of organisms.
PT
XX
XX Disclosure; Page 5; 8pp; English.
PS
XX
XX This (CA)9 simple sequence repeat is used to illustrate the novel method
CC for detecting SSR polymorphisms without the need for direct sequencing or
CC gel electrophoresis. The length of a particular repeat region (i.e.
CC number of repeats) can be highly polymorphic; the sequences flanking the
CC repeat region, however, are conserved. Detection of a SSR of a specific
CC length is achieved by successful ligation of two oligonucleotides, one
CC being exactly complementary to the repeat region and one of its conserved
CC flanking sequences and the other being complementary to the other
CC conserved flanking sequence. (Updated on 10-MAR-2003 to add missing OS
CC field.) (Updated on 25-MAR-2003 to correct PN field.)
XX
XX Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2335 GTGTGTGTGTGTGTGTG 2351
DB 17 GTGTGTGTGTGTGTGTG 1

RESULT 753
AAV21968/C
ID AAV21968 standard; DNA; 18 BP.
XX
XX AAV21968;
AC
XX
XX 14-JUL-1998 (first entry)
DT
XX
XX Nuclease resistant antisense oligo NBT 141 targeted against (AC)9.
DE
XX
XX Nuclease resistant; bacterial infection; antibiotic; target;
KW veterinary medicine; treatment; human; industrial process;
KW bacterial control; ss.
KW
XX
XX Synthetic.
OS
XX
XX WO9803533-A1.
PN
XX
XX 29-JAN-1998.
PD
XX
XX 23-JUL-1997; 97WO-US012961.
PF
XX
XX 24-JUL-1996; 96US-00685575.
PR
XX
XX (OLIG-) OLIGOS ETC & OLIGOS THERAPEUTICS INC.
PA
XX
XX Arrow A, Dale RMK, Thompson TL;
PI
XX
XX WPI; 1998-120687/11.
DR
XX
XX Treating bacterial infections in humans or animals with
PT oligo:nucleotide(s) - resistant to nuclease and targeted to bacterial
PT nucleic acid or proteins, also conjugates of these oligo:nucleotide(s)
PT with antibiotics.
PT
XX
XX Claim 49; Page 87; 163pp; English.
PS
XX

```

CC This antisense oligonucleotide is nuclease resistant and can be used in  
 CC the treatment of animals, including humans, having a bacterial infection.  
 CC The treatment comprises administration of such nuclease resistant  
 CC oligonucleotides, targeted to a nucleic acid or protein of the bacterium,  
 CC and formulated with a carrier. A compound comprising this nuclease  
 CC resistant oligonucleotide can be covalently linked to an antibiotic. The  
 CC method is used to treat infections by a wide variety of Gram-positive and  
 CC Gram-negative, or acid-fast, bacteria, in human and veterinary medicine.  
 CC The methods are particularly used in immuno-compromised individuals (e.g.  
 CC patients with acquired immunodeficiency syndrome or those receiving  
 CC chemotherapy or radiation therapy), optionally in combination with, or  
 CC fused to, antiviral or other antimicrobial oligonucleotides. Apart from  
 CC therapeutic use, the oligonucleotides can be used to control bacteria in  
 CC laboratory cultures, foods, beverages and industrial processes. The  
 CC oligonucleotides are specific for bacteria, without affecting metabolism  
 CC in mammalian cells. They may also activate RNase H and have a general,  
 CC non-specific immune-stimulating effect. The oligonucleotides can be  
 CC administered orally, intranasally, rectally, topically or by injection,  
 CC optionally coupled to an agent (e.g. carbohydrate or polyamine) that  
 CC enhances cellular uptake  
 XX  
 XX Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351

Db 18 GTGTGTGTGTGTGTGTG 2

RESULT 754

AA77462/C  
 ID AAX77462 standard; DNA; 18 BP.

XX AAX77462;

DT 05-AUG-1999 (first entry)

DE US5912147 primer 6.

XX Primer; quantitation; genetic instability; tumour cell; detection;  
 KW neoplastic transformation; carcinogenesis; ss.

OS Synthetic.

XX US5912147-A.

PN 15-JUN-1999.

XX 22-OCT-1996; 96US-00734973.

PR 22-OCT-1996; 96US-00734973.

XX (HEAL-) HEALTH RES INC.

PA Anderson G, Stoler D, Basik M;

XX WPI; 1999-357197/30.

DR Quantitating genetic instability.

XX Claim 4; Col 17-18; 27pp; English.

CC This invention describes a novel method for quantitating genetic  
 CC instability independent of microsatellite alterations by treating a  
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA  
 CC from normal cells. The method involves the cells from the same individual  
 CC with oligonucleotide primers selected from (i) a nucleotide sequence  
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-  
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a  
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)

CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a  
 CC nucleotide sequence (CG)XY, where Y is a pyrimidine selected from  
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence  
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-  
 CC 16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from  
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,  
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,  
 CC where R is a purine selected from adenine and guanine and x = 6-16,  
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected  
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
 CC of the primers. The method is useful for detecting genomic instability  
 CC which are commonly associated with the various stages of neoplastic  
 CC transformation and carcinogenesis. The method is rapid and simple  
 XX  
 XX Sequence 18 BP; 8 A; 9 C; 1 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 8.6e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2317 CTGTGTGTGTGTGTG 2333

Db 17 CTGTGTGTGTGTGTG 1

RESULT 755

AA77487/C  
 ID AAX77487 standard; DNA; 18 BP.

XX AAX77487;

DT 05-AUG-1999 (first entry)

DE US5912147 primer 31.

XX Primer; quantitation; genetic instability; tumour cell; detection;  
 KW neoplastic transformation; carcinogenesis; ss.

OS Synthetic.

XX US5912147-A.

PD 15-JUN-1999.

XX 22-OCT-1996; 96US-00734973.

PR 22-OCT-1996; 96US-00734973.

XX (HEAL-) HEALTH RES INC.

PA Anderson G, Stoler D, Basik M;

XX WPI; 1999-357197/30.

DR Quantitating genetic instability.

XX Claim 4; Col 29-30; 27pp; English.

CC This invention describes a novel method for quantitating genetic  
 CC instability independent of microsatellite alterations by treating a  
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA  
 CC from normal cells. The method involves the cells from the same individual  
 CC with oligonucleotide primers selected from (i) a nucleotide sequence  
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-  
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a  
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)  
 CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a  
 CC nucleotide sequence (CG)XY, where Y is a pyrimidine selected from  
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence  
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-  
 CC 16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from  
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,  
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,



CC where R is a purine selected from adenine and guanine and x = 6-16,  
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected  
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
 CC of the primers. The method is useful for detecting genomic instability  
 CC which are commonly associated with the various stages of neoplastic  
 CC transformation and carcinogenesis. The method is rapid and simple  
 XX  
 XX  
 SQ Sequence 18 BP; 8 A; 9 C; 0 G; 1 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2335 GTGTGTGTGTGTGTGTG 2351  
 DB 17 GTGTGTGTGTGTGTG 1  
 RESULT 756  
 AAX77486/c  
 ID AAX77486 standard; DNA; 18 BP.  
 XX AAX77486;  
 AC AAX77486;  
 DT 05-AUG-1999 (first entry)  
 XX US5912147 primer 30.  
 DE US5912147 primer 30.  
 XX  
 XX Primer; quantitation; genetic instability; tumour cell; detection;  
 KW neoplastic transformation; carcinogenesis; ss.  
 XX  
 OS Synthetic.  
 XX  
 XX US5912147-A.  
 PN 15-JUN-1999.  
 XX  
 XX 22-OCT-1996; 96US-00734973.  
 PF 22-OCT-1996; 96US-00734973.  
 PR 22-OCT-1996; 96US-00734973.  
 XX (HEAL-) HEALTH RES INC.  
 PA  
 PI Anderson G, Stoler D, Basik M;  
 XX WPI; 1999-357197/30.  
 DR Quantitating genetic instability.  
 XX  
 XX Claim 4; Col 29-30; 27pp; English.  
 PS  
 XX This invention describes a novel method for quantitating genetic  
 CC instability independent of microsatellite alterations by treating a  
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA  
 CC from normal cells. The method involves the cells from the same individual  
 CC with oligonucleotide primers selected from (i) a nucleotide sequence  
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-  
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a  
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)  
 CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a  
 CC nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (v) a  
 CC nucleotide sequence (CG)XRY, where Y is a pyrimidine selected from  
 CC cytosine, thymine, and uracil and x = 3-7, (vi) a nucleotide sequence  
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-  
 CC 16, (vii) a nucleotide sequence (CA)XRY, where R is a purine selected from  
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,  
 CC thymine, and uracil, and x = 6-16, (viii) a nucleotide sequence (CA)XRR,  
 CC where R is a purine selected from adenine and guanine and x = 6-16,  
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected  
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
 CC of the primers. The method is useful for detecting genomic instability  
 CC which are commonly associated with the various stages of neoplastic  
 CC transformation and carcinogenesis. The method is rapid and simple  
 XX

SQ Sequence 18 BP; 8 A; 10 C; 0 G; 0 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2335 GTGTGTGTGTGTGTGTG 2351  
 DB 17 GTGTGTGTGTGTGTG 1  
 RESULT 757  
 AAX77458/c  
 ID AAX77458 standard; DNA; 18 BP.  
 XX AAX77458;  
 AC AAX77458;  
 DT 05-AUG-1999 (first entry)  
 XX US5912147 primer 2.  
 DE US5912147 primer 2.  
 XX  
 XX Primer; quantitation; genetic instability; tumour cell; detection;  
 KW neoplastic transformation; carcinogenesis; ss.  
 XX  
 OS Synthetic.  
 XX  
 XX US5912147-A.  
 PN 15-JUN-1999.  
 XX  
 XX 22-OCT-1996; 96US-00734973.  
 PF 22-OCT-1996; 96US-00734973.  
 PR 22-OCT-1996; 96US-00734973.  
 XX (HEAL-) HEALTH RES INC.  
 PA  
 PI Anderson G, Stoler D, Basik M;  
 XX WPI; 1999-357197/30.  
 DR Quantitating genetic instability.  
 XX  
 XX Claim 4; Col 17-18; 27pp; English.  
 PS  
 XX This invention describes a novel method for quantitating genetic  
 CC instability independent of microsatellite alterations by treating a  
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA  
 CC from normal cells. The method involves the cells from the same individual  
 CC with oligonucleotide primers selected from (i) a nucleotide sequence  
 CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-  
 CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a  
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)  
 CC a nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a  
 CC nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (v) a  
 CC nucleotide sequence (CG)XRY, where Y is a pyrimidine selected from  
 CC cytosine, thymine, and uracil and x = 3-7, (vi) a nucleotide sequence  
 CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-  
 CC 16, (vii) a nucleotide sequence (CA)XRY, where R is a purine selected from  
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,  
 CC thymine, and uracil, and x = 6-16, (viii) a nucleotide sequence (CA)XRR,  
 CC where R is a purine selected from adenine and guanine and x = 6-16,  
 CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected  
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
 CC of the primers. The method is useful for detecting genomic instability  
 CC which are commonly associated with the various stages of neoplastic  
 CC transformation and carcinogenesis. The method is rapid and simple  
 XX  
 XX Sequence 18 BP; 8 A; 8 C; 2 G; 0 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2317 CTGTGTGTGTGTGTGTG 2333

```
Db      17 CTGTGTGTGTGTGTG 1
RESULT 758
AAAX77464/c
ID      AAX77464 standard; DNA; 18 BP.
XX
XX
AC      AAX77464;
XX
DT      05-AUG-1999 (first entry)
XX
DE      US912147 primer 8.
XX
KW      Primer; quantitation; genetic instability; tumour cell; detection;
KW      neoplastic transformation; carcinogenesis; DNA/RNA hybrid; ss.
XX
XX      Synthetic.
XX
FH      Key
FT      misc_RNA
FT      18
FT      Location/Qualifiers
FT      /*tag= a
FT      /note= "uracil"
XX
XX      US912147-A.
XX
XX      15-JUN-1999.
XX
XX      22-OCT-1996; 96US-00734973.
XX
XX      22-OCT-1996; 96US-00734973.
XX
XX      (HEAL-) HEALTH RES INC.
XX
XX      Anderson G, Stoler D, Basik M;
XX
XX      WPI; 1999-357197/30.
XX
XX      Quantitating genetic instability.
XX
XX      Claim 4; Col 19-20; 27pp; English.
XX
XX      This invention describes a novel method for quantitating genetic
XX      instability independent of microsatellite alterations by treating a
XX      comparison pair comprising genomic DNA from tumour cells and genomic DNA
XX      from normal cells. The method involves the cells from the same individual
XX      with oligonucleotide primers selected from (i) a nucleotide sequence
XX      (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-
XX      7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a
XX      pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
XX      a nucleotide sequence (CG)XYY, where R is as in (i) and x = 3-7, (iv) a
XX      nucleotide sequence (CG)XY, where Y is a pyrimidine selected from
XX      cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
XX      (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-
XX      16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from
XX      adenine and guanine and Y is a pyrimidine selected from cytosine,
XX      thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,
XX      where R is a purine selected from adenine and guanine and x = 6-16,
XX      (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected
XX      from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
XX      of the primers. The method is useful for detecting genomic instability
XX      which are commonly associated with the various stages of neoplastic
XX      transformation and carcinogenesis. The method is rapid and simple
XX
XX      Sequence 18 BP; 8 A; 8 C; 1 G; 0 T; 1 U; 0 Other;
XX
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      2317 CTGTGTGTGTGTGTG 2333
Db      17 CTGTGTGTGTGTGTG 1
RESULT 759
AAAX77488/c
ID      AAX77488 standard; DNA; 18 BP.
XX
XX
AC      AAX77488;
XX
DT      05-AUG-1999 (first entry)
XX
DE      US912147 primer 32.
XX
KW      Primer; quantitation; genetic instability; tumour cell; detection;
KW      neoplastic transformation; carcinogenesis; DNA/RNA hybrid; ss.
XX
XX      Synthetic.
XX
FH      Key
FT      misc_RNA
FT      18
FT      Location/Qualifiers
FT      /*tag= a
FT      /note= "uracil"
XX
XX      US912147-A.
XX
XX      15-JUN-1999.
XX
XX      22-OCT-1996; 96US-00734973.
XX
XX      22-OCT-1996; 96US-00734973.
XX
XX      (HEAL-) HEALTH RES INC.
XX
XX      Anderson G, Stoler D, Basik M;
XX
XX      WPI; 1999-357197/30.
XX
XX      Quantitating genetic instability.
XX
XX      Claim 4; Col 29-30; 27pp; English.
XX
XX      This invention describes a novel method for quantitating genetic
XX      instability independent of microsatellite alterations by treating a
XX      comparison pair comprising genomic DNA from tumour cells and genomic DNA
XX      from normal cells. The method involves the cells from the same individual
XX      with oligonucleotide primers selected from (i) a nucleotide sequence
XX      (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-
XX      7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a
XX      pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)
XX      a nucleotide sequence (CG)XYY, where Y is a pyrimidine selected from
XX      cytosine, thymine, and uracil and x = 3-7, (iv) a nucleotide sequence
XX      (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-
XX      16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from
XX      adenine and guanine and Y is a pyrimidine selected from cytosine,
XX      thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,
XX      where R is a purine selected from adenine and guanine and x = 6-16,
XX      (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected
XX      from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
XX      of the primers. The method is useful for detecting genomic instability
XX      which are commonly associated with the various stages of neoplastic
XX      transformation and carcinogenesis. The method is rapid and simple
XX
XX      Sequence 18 BP; 8 A; 9 C; 0 G; 0 T; 1 U; 0 Other;
XX
Query Match 0.4%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.6e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      2335 GTGTGTGTGTGTGTG 2351
Db      17 GTGTGTGTGTGTGTG 1
```

RESULT 760  
AAAX77463/C  
ID AAX77463 standard; DNA; 18 BP.  
XX AC AAX77463;  
XX DT 05-AUG-1999 (first entry)  
XX DE US5912147 primer 7.  
XX KW Primer; quantitation; genetic instability; tumour cell; detection;  
XX KW neoplastic transformation; carcinogenesis; ss.  
XX OS Synthetic.  
XX PN US5912147-A.  
XX PD 15-JUN-1999.  
XX PF 22-OCT-1996; 96US-00734973.  
XX PR 22-OCT-1996; 96US-00734973.  
XX PA (HEAL-) HEALTH RES INC.  
XX PI Anderson G, Stoler D, Basik M;  
XX DR WPI; 1999-357197/30.  
XX PT Quantitating genetic instability.  
XX PS Claim 4; Col 19-20; 27pp; English.  
XX CC This invention describes a novel method for quantitating genetic  
CC instability independent of microsatellite alterations by treating a  
CC comparison pair comprising genomic DNA from tumour cells and genomic DNA  
CC from normal cells. The method involves the cells from the same individual  
CC with oligonucleotide primers selected from (i) a nucleotide sequence  
CC (CG)XRG, where R is a purine selected from adenine and guanine and x = 3-  
CC 7, (ii) a nucleotide sequence (CG)XRY, where R is as in (i) and Y is a  
CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii) a  
CC nucleotide sequence (CG)XRR, where R is as in (i) and x = 3-7, (iv) a  
CC nucleotide sequence (CG)XY, where Y is a pyrimidine selected from  
CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence  
CC (CA)XRG, where R is a purine selected from adenine and guanine and x = 6-  
CC 16, (vi) a nucleotide sequence (CA)XRY, where R is a purine selected from  
CC adenine and guanine and Y is a pyrimidine selected from cytosine,  
CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)XRR,  
CC where R is a purine selected from adenine and guanine and x = 6-16,  
CC (viii) a nucleotide sequence (CA)XY, where Y is a pyrimidine selected  
CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
CC of the primers. The method is useful for detecting genomic instability  
CC which are commonly associated with the various stages of neoplastic  
CC transformation and carcinogenesis. The method is rapid and simple  
XX SQ Sequence 18 BP; 8 A; 8 C; 1 G; 1 T; 0 U; 0 Other;  
Query Match 0.4%; Score 17; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02; Indels 0; Gaps 0;  
Matches 17; Conservative 0; Mismatches 0;  
QY 2317 CTGTGTGTGTGTGTGTG 2333  
DB 17 CTGTGTGTGTGTGTGTG 1  
RESULT 761  
AAAX76437  
ID AAX76437 standard; DNA; 18 BP.  
XX AC AAX76437;  
XX DT 05-AUG-1999 (first entry)

XX DE Sequencing reagent array oligonucleotide primer #28.  
XX KW Sequencing reagent array; primer; capture moiety; hybridisation;  
XX KW detection; mutation; diagnosis; infectious disease; genetic disease; ss.  
XX OS Synthetic.  
XX PN WO9927137-A1.  
XX PD 03-JUN-1999.  
XX PF 20-NOV-1998; 98WO-US024966.  
XX PR 21-NOV-1997; 97US-00976427.  
XX PA (ORCH-) ORCHID BIOCOMPUTER INC.  
XX PI Head SR, Golet P, Karn J, Boyce-Jacino M;  
XX DR WPI; 1999-357855/30.  
XX PT Reagent for nucleic acid sequencing by primer extension, used to detect  
XX PT mutations and to diagnose infectious or genetic diseases.  
XX PS Example 7; Page 27; 47pp; English.  
XX CC The present invention describes a sequencing reagent (I) comprising: (a)  
CC a capture group (CG) that can form a stable complex with a region of a  
CC template nucleic acid (II); (b) spacer region (SR); and (c) sequence-  
CC specific hybridisation region (SSR) of 4-8 bases able to hybridise to a  
CC complementary sequence on (II). Also described are: (1) array comprising  
CC an orderly arrangement of many (I), immobilized on a solid support; and  
CC (2) method of sequencing (II) using a combinatorial array of (I). Arrays  
CC of (I) are used for sequencing nucleic acids by a primer extension  
CC method, e.g. to scan for mutations (particularly single-nucleotide  
CC polymorphisms) and for diagnosis of infectious and genetic diseases.  
CC Arrays of (I) allow sequencing of templates without any prior knowledge  
CC of the wild-type or expected sequence. By separating the capture and  
CC specific hybridisation functions, it becomes possible to use smaller  
CC primers, simplifying array analysis, reducing costs and allowing  
CC thousands of hybridisation reactions to be done simultaneously.  
CC Particularly, 4 times fewer primers are required, compared with standard  
CC methods, i.e. since primer extension increases the effective length of  
CC the primer by 1 base, an array of n-mers will be as effective as an array  
CC of n+1-mers in usual methods. The method may be applied to single- or  
CC double-stranded DNA. AAX76410 to AAX76440 represent sequencing reagent  
CC array oligonucleotide primers used in an example from the present  
CC invention  
XX SQ Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;  
Query Match 0.4%; Score 17; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02; Indels 0; Gaps 0;  
Matches 17; Conservative 0; Mismatches 0;  
QY 2335 GTGTGTGTGTGTGTG 2351  
DB 2 GTGTGTGTGTGTGTG 18  
RESULT 762  
AAAS13765  
ID AAS13765 standard; DNA; 18 BP.  
XX AC AAS13765;  
XX DT 08-MAY-2002 (first entry)  
XX DE Simple sequence repeat, SSR, #37.  
XX KW Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;  
XX KW cereal profiling; grass profiling; seed batch purity testing.

XX Lolium multiflorum.  
 OS NZ509193-A.  
 PN 25-MAY-2001.  
 XX 03-JAN-2001; 2001NZ-00509193.  
 XX 24-DEC-1999; 99AU-00004906.  
 PR 04-MAY-2000; 2000AU-00007310.  
 XX (SAUS-) STATE SOUTH AUSTRALIA SOUTH AUSTRALIAN R.  
 PA (UYSC-) UNIV SOUTHERN CROSS.  
 PA (VICT-) STATE VICTORIA DEPT NATURAL RES & ENVIRO.  
 PA (UYAD-) UNIV ADELAIDE.  
 PA (ITMA-) INT MAIZE & WHEAT IMPROVEMENT CENT.  
 XX Forster JW, Jones ES;  
 XX WPI; 2001-512563/56.  
 DR New simple sequence repeats having 2 or more tandemly repeated nucleotide  
 XX core elements isolated from ryegrass and fescue, useful for selecting of  
 XX genes in grass or cereal breeding or profiling grass or cereal species  
 XX varieties.  
 XX Example 1; Fig 6; 72pp; English.  
 PS The invention relates to a substantially purified or isolated nucleic  
 XX acid (I) from ryegrass or fescue species including a simple sequence  
 XX repeat (SSR), having 2 or more tandemly repeated nucleotide core elements  
 XX 2-6 nucleotides in length. Also included are a nucleic acid primer  
 XX suitable for amplifying an SSR, identifying (M1) an SSR by preparing a  
 XX library of ryegrass or fescue genomic DNA enriched for SSRs and  
 XX identifying clones in the library containing SSRs, a library of ryegrass  
 XX or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for  
 XX a gene in grass or cereal breeding by identifying an SSR that is closely  
 XX associated with the gene such that the SSR and the gene are  
 XX preferentially co-inherited, and selecting for the SSR in the breeding, a  
 XX method for DNA profiling grass or cereal species varieties by assessing  
 XX variation between SSR varieties and testing the purity of grass or cereal  
 XX seed batches by assessing variation within seed batch of an SSR. The SSRs  
 XX may be used in the selection of genes in grass or cereal breeding, for  
 XX profiling grass or cereal species varieties, for testing the purity of  
 XX grass or cereal seed batches, and for DNA profiling to establish the  
 XX distinct identity, uniformity and/or stability of a cultivar. The present  
 XX sequence is a ryegrass or fescue SSR  
 XX  
 SQ Sequence 18 BP; 0 A; 0 C; 9 G; 9 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2335 GTGTGTGTGTGTGTGTG 2351  
 Db 1 GTGTGTGTGTGTGTGTG 17  
 RESULT 763  
 AAS13732/C  
 ID AAS13732 standard; DNA; 18 BP.  
 XX AAS13732;  
 AC  
 XX 08-MAY-2002 (first entry)  
 DT Simple sequence repeat, SSR, #29.  
 DE Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;  
 XX Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;  
 XX cereal profiling; grass profiling; seed batch purity testing.  
 XX

OS Poeae.  
 XX NZ509193-A.  
 PN 25-MAY-2001.  
 XX 03-JAN-2001; 2001NZ-00509193.  
 XX 24-DEC-1999; 99AU-00004906.  
 PR 04-MAY-2000; 2000AU-00007310.  
 XX (SAUS-) STATE SOUTH AUSTRALIA SOUTH AUSTRALIAN R.  
 PA (UYSC-) UNIV SOUTHERN CROSS.  
 PA (VICT-) STATE VICTORIA DEPT NATURAL RES & ENVIRO.  
 PA (UYAD-) UNIV ADELAIDE.  
 PA (ITMA-) INT MAIZE & WHEAT IMPROVEMENT CENT.  
 XX Forster JW, Jones ES;  
 XX WPI; 2001-512563/56.  
 DR New simple sequence repeats having 2 or more tandemly repeated nucleotide  
 XX core elements isolated from ryegrass and fescue, useful for selecting of  
 XX genes in grass or cereal breeding or profiling grass or cereal species  
 XX varieties.  
 XX Claim 6; Page 51; 72pp; English.  
 PS The invention relates to a substantially purified or isolated nucleic  
 XX acid (I) from ryegrass or fescue species including a simple sequence  
 XX repeat (SSR), having 2 or more tandemly repeated nucleotide core elements  
 XX 2-6 nucleotides in length. Also included are a nucleic acid primer  
 XX suitable for amplifying an SSR, identifying (M1) an SSR by preparing a  
 XX library of ryegrass or fescue genomic DNA enriched for SSRs and  
 XX identifying clones in the library containing SSRs, a library of ryegrass  
 XX or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for  
 XX a gene in grass or cereal breeding by identifying an SSR that is closely  
 XX associated with the gene such that the SSR and the gene are  
 XX preferentially co-inherited, and selecting for the SSR in the breeding, a  
 XX method for DNA profiling grass or cereal species varieties by assessing  
 XX variation between SSR varieties and testing the purity of grass or cereal  
 XX seed batches by assessing variation within seed batch of an SSR. The SSRs  
 XX may be used in the selection of genes in grass or cereal breeding, for  
 XX profiling grass or cereal species varieties, for testing the purity of  
 XX grass or cereal seed batches, and for DNA profiling to establish the  
 XX distinct identity, uniformity and/or stability of a cultivar. The present  
 XX sequence is a ryegrass or fescue SSR  
 XX  
 SQ Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2335 GTGTGTGTGTGTGTGTG 2351  
 Db 17 GTGTGTGTGTGTGTGTG 1  
 RESULT 764  
 AAS13723/C  
 ID AAS13723 standard; DNA; 18 BP.  
 XX AAS13723;  
 AC  
 XX 08-MAY-2002 (first entry)  
 DT Simple sequence repeat, SSR, #20.  
 DE Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;  
 XX Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;  
 XX cereal profiling; grass profiling; seed batch purity testing.  
 XX Poeae.





XX  
DR WPI; 2001-290930/30.  
XX  
PT New genotyping oligonucleotide, useful for detecting the presence,  
PT absence or identity of single polynucleotide polymorphism in a nucleic  
PT acid sample.  
XX  
PS Claim 1; Page 51; 83pp; English.  
XX  
CC Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide  
CC primer extension (SNPE) primers, and the sequences of regions flanking  
CC sites of single nucleotide polymorphisms SNPs. The present invention  
CC includes kits for determining the presence or absence of a SNP, using the  
CC oligonucleotides of the invention. The PCR primers are used to amplify a  
CC SNP flanking sequence, the SNPE primer is used as a genotyping primer.  
CC The oligonucleotides are useful for genotyping a nucleic acid sample by  
CC performing a single-nucleotide primer extension reaction. The  
CC oligonucleotides are useful for determining the presence, absence or  
CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to  
CC assess by association analysis the genotype of an individual or group of  
CC individuals, having a pathological phenotypic trait suspected of being  
CC caused by one or more SNPs. Phenotypic traits include diseases e.g.  
CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular  
CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease,  
CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic  
CC traits also include symptoms of or susceptibility to multifactorial  
CC disease of which a component is or may be genetic such as autoimmune  
CC diseases, including, rheumatoid arthritis, multiple sclerosis,  
CC inflammation, cancer, nervous system diseases and infection by pathogenic  
CC microorganism. The method is also useful in forensic investigations and  
CC paternity analysis. The present sequence represents a PCR primer specific  
CC for a human SNP containing DNA sequence  
XX  
SQ Sequence 18 BP; 0 A; 2 C; 9 G; 7 T; 0 U; 0 Other;  
  
Query Match 0.4%; Score 17; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 2319 GTGTGTGTGTGTGTGG 2335  
DB 1 GTGTGTGTGTGTGTGG 17  
  
RESULT 769  
AA164454/C  
ID AA164454 standard; DNA; 18 BP.  
XX  
AC AA164454;  
XX  
DT 23-NOV-2001 (first entry)  
XX  
DE SSR motif #14.  
XX  
KW Simple Sequence Repeat; SSR; clover; microsatellite; genome mapping;  
KW trait mapping; marker-assisted selection; gene selection; legume;  
KW DNA profiling; breeding; ds.  
XX  
OS Unidentified.  
XX  
PN NZ509194-A.  
XX  
PD 25-MAY-2001.  
XX  
PF 03-JAN-2001; 2001NZ-00509194.  
XX  
PR 24-DEC-1999; 99AU-00004907.  
PR 28-MAR-2000; 2000AU-00006520.  
XX  
PA (AGRI-) AGRIC VICTORIA SERVICES PTY LTD.  
XX  
PI Koelliker R, Forster JW;  
XX

DR WPI; 2001-431058/46.  
XX  
PT Novel simple sequence repeats in clover species useful for selection of  
PT genes in legume breeding, for profiling legume species varieties and for  
PT testing the purity of legume seed batches.  
XX  
PS Claim 6; Page 35; 52pp; English.  
XX  
CC The present invention relates to Simple Sequence Repeats (SSRs) from  
CC clover species. SSRs, also called microsatellites, are based on a 1-7  
CC nucleotide core element which is tandemly repeated. The SSR array is  
CC embedded in complex flanking DNA. SSRs are ideal markers for genome  
CC mapping, trait mapping and marker-assisted selection. The SSRs may be  
CC used in methods for selecting genes in clover/ legume breeding. The SSRs  
CC are also useful for DNA profiling of clover varieties and for testing the  
CC purity of legume seed batches. The present sequence is a SSR motif, which  
CC was used in the present invention  
XX  
SQ Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;  
  
Query Match 0.4%; Score 17; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 2335 GTGTGTGTGTGTGTGG 2351  
DB 17 GTGTGTGTGTGTGTGG 1  
  
RESULT 770  
AD081096/C  
ID AD081096 standard; DNA; 18 BP.  
XX  
AC AD081096;  
XX  
DT 29-JUL-2004 (first entry)  
XX  
DE Sheep prion protein microsatellite locus primer #67.  
XX  
KW gene typing; polymorphic microsatellite loci; PML;  
KW disease predisposition; microsatellite marker; prion disease;  
KW cystic fibrosis; malignant hyperthermia syndrome; metabolic disease;  
KW milk protein; hormone; transcription factor; pr7-blue-vector; sheep;  
KW microsatellite; PCR; primer; ss.  
XX  
OS Ovis aries.  
XX  
PN DE10236711-A1.  
XX  
PD 26-FEB-2004.  
XX  
PF 09-AUG-2002; 2002DE-01036711.  
XX  
PR 09-AUG-2002; 2002DE-01036711.  
XX  
PA (UYHO-) UNIV HOHENHEIM.  
XX  
PI Geldermann H, Preuss S, Han Y;  
XX  
DR WPI; 2004-215730/21.  
XX  
PT Typing genes that contain polymorphic microsatellite loci, useful for  
PT identifying predisposition to disease, by amplification and determining  
PT length of amplicons.  
XX  
PS Example 3; Page 30; 64pp; German.  
XX  
CC The invention describes a method of typing (M1) a gene (I) that has one  
CC or more polymorphic microsatellite loci (PML). The method comprises: PCR  
CC amplification of at least one DNA region of (I) that includes PML, using  
CC as template a DNA sample containing at least one segment of (I); and  
CC determining the length of the resulting amplicon(s). Also described are:  
CC a method of determining (M2) microsatellite markers (MM) for



CC predisposition to a disease, associated with a gene that includes one or  
 CC more PMU; and prediagnosis (M3) of diseases associated with gene that  
 CC include PMU. The method is used to identify microsatellite markers, in a  
 CC disease-related gene, that are associated with a predisposition to  
 CC diseases and for prediagnosis of such diseases, especially prion diseases  
 CC but also cystic fibrosis, malignant hyperthermia syndrome in pigs and  
 CC metabolic diseases; also to type genes that encode milk proteins.  
 CC hormones or transcription factors. The method is simpler, quicker and  
 CC particularly less expensive than known methods based on sequencing. This  
 CC sequence represents a primer used to genotype a region of the sheep prion  
 CC protein (PrP) comprising a polymorphic microsatellite locus.  
 XX  
 SQ Sequence 18 BP; 9 A; 9 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2335 GTGTGTGTGTGTGTGTG 2351  
 Db 17 GTGTGTGTGTGTGTGTG 1

RESULT 771  
 ADI80140/C  
 ID ADI80140 standard; DNA; 20 BP.  
 XX  
 AC ADI80140;  
 XX  
 DT 22-APR-2004 (first entry)  
 DE Mouse transforming growth factor-beta 2 antisense oligo, SEQ ID No 141.  
 DE antisense; transforming growth factor; TGF; beta 2; TGF-beta 2;  
 KW cytosolic; nontropic; neuroprotective; immunosuppressive;  
 KW hyperproliferative disorder; cancer; neurodegenerative; hyperactivation;  
 KW immune; ss; mouse; murine.  
 XX  
 OS Mus musculus.  
 XX  
 PN US2004006030-A1.  
 XX  
 PD 08-JAN-2004.  
 XX  
 PF 02-JUL-2002; 2002US-00189267.  
 XX  
 PR 02-JUL-2002; 2002US-00189267.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 PI Monia BP, Freier SM, Dobie KW;  
 XX  
 DR WPI; 2004-081742/08.  
 XX  
 PT New compounds, particularly antisense oligonucleotides targeted to a  
 PT nucleic acid encoding TGF-beta 2, useful for treating cancer, a  
 PT neurodegenerative disorder, or a disease involving hyperactivation of  
 PT immune response.

XX  
 PS Example 16; SEQ ID NO 141; 135pp; English.  
 XX  
 CC The invention relates to a novel antisense compound of 8-80 nucleobases  
 CC in length targeted to, and which specifically hybridizes with, a nucleic  
 CC acid molecule encoding transforming growth factor (TGF)-beta 2, and  
 CC inhibits the expression of TGF-beta 2. The invention further relates to:  
 CC a compound 8-80 nucleobases in length that specifically hybridizes with  
 CC at least an 8-nucleobase portion of an active site on a nucleic acid  
 CC molecule encoding TGF-beta 2; a composition comprising the compound and a  
 CC carrier or diluent; inhibiting the expression of TGF-beta 2 in cells or  
 CC tissues by contacting the cells or tissues with the compound so that  
 CC expression of TGF-beta 2 is inhibited; treating an animal having a  
 CC disease or condition associated with TGF-beta 2 by administering to the  
 CC animal a therapeutic or prophylactic amount of the compound so that

CC expression of TGF-beta 2 is inhibited; and screening an antisense  
 CC compound. The antisense compound has cytostatic, nontropic,  
 CC neuroprotective, and immunosuppressive activities. The compound,  
 CC composition and methods are useful for treating a disease or condition  
 CC associated with TGF-beta 2, such as a hyperproliferative disorder e.g.  
 CC cancer, a neurodegenerative disorder, or a disease or condition involving  
 CC hyperactivation of an immune response. This polynucleotide sequence  
 CC represents an antisense oligonucleotide of the invention.

XX  
 SQ Sequence 20 BP; 6 A; 6 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 3377 TTGCTGTGTGTCCAGG 3393  
 Db 18 TTGCTGTGTGTCCAGG 2

RESULT 772  
 ADI80261  
 ID ADI80261 standard; DNA; 20 BP.  
 XX  
 AC ADI80261;  
 XX  
 DT 22-APR-2004 (first entry)  
 DE Mouse transforming growth factor-beta 2 target DNA region, SEQ ID No 262.  
 DE antisense; transforming growth factor; TGF; beta 2; TGF-beta 2;  
 KW cytosolic; nontropic; neuroprotective; immunosuppressive;  
 KW hyperproliferative disorder; cancer; neurodegenerative; hyperactivation;  
 KW immune; ss; mouse; murine.  
 XX  
 OS Mus musculus.  
 XX  
 PN US2004006030-A1.  
 XX  
 PD 08-JAN-2004.  
 XX  
 PF 02-JUL-2002; 2002US-00189267.  
 XX  
 PR 02-JUL-2002; 2002US-00189267.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 PI Monia BP, Freier SM, Dobie KW;  
 XX  
 DR WPI; 2004-081742/08.  
 XX  
 PT New compounds, particularly antisense oligonucleotides targeted to a  
 PT nucleic acid encoding TGF-beta 2, useful for treating cancer, a  
 PT neurodegenerative disorder, or a disease involving hyperactivation of  
 PT immune response.  
 XX  
 PS Example 16; SEQ ID NO 262; 135pp; English.  
 XX  
 CC The invention relates to a novel antisense compound of 8-80 nucleobases  
 CC in length targeted to, and which specifically hybridizes with, a nucleic  
 CC acid molecule encoding transforming growth factor (TGF)-beta 2, and  
 CC inhibits the expression of TGF-beta 2. The invention further relates to:  
 CC a compound 8-80 nucleobases in length that specifically hybridizes with  
 CC at least an 8-nucleobase portion of an active site on a nucleic acid  
 CC molecule encoding TGF-beta 2; a composition comprising the compound and a  
 CC carrier or diluent; inhibiting the expression of TGF-beta 2 in cells or  
 CC tissues by contacting the cells or tissues with the compound so that  
 CC expression of TGF-beta 2 is inhibited; treating an animal having a  
 CC disease or condition associated with TGF-beta 2 by administering to the  
 CC animal a therapeutic or prophylactic amount of the compound so that  
 CC expression of TGF-beta 2 is inhibited; and screening an antisense  
 CC compound. The antisense compound has cytostatic, nontropic,  
 CC neuroprotective, and immunosuppressive activities. The compound,

CC composition and methods are useful for treating a disease or condition  
 CC associated with TGF-beta 2, such as a hyperproliferative disorder e.g.  
 CC cancer, a neurodegenerative disorder, or a disease or condition involving  
 CC hyperactivation of an immune response. This polynucleotide sequence  
 CC represents a preferred target DNA region of TGF-beta 2 of the invention.

XX  
 SQ Sequence 20 BP; 2 A; 6 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3377 TTCTGTGTGTCCACG 3393  
 |||||  
 Db 3 TTCTGTGTGTCCACG 19

RESULT 773  
 ADM15004/C  
 ID ADM15004 standard; DNA; 20 BP.  
 XX  
 AC ADM15004;  
 XX  
 DT 01-JUL-2004 (first entry)  
 XX  
 DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1191.  
 XX  
 KW chimeric; antisense oligonucleotide; phosphorothioate; human;  
 KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;  
 KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;  
 KW immunomodulator; cardiant; neuroprotective; antiinflammatory;  
 KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;  
 KW immunomodulatory; cardiovascular; gene therapy; inflammation;  
 KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
 KW reperfusion injury; ophthalmic disorder; immunological disorder;  
 KW cardiovascular disorder; neurological disorder; ss.

XX Homo sapiens.  
 OS Synthetic.

PH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "phosphorothioate linkages and all cytidine  
 FT residues are 5-methylcytidines"

FT modified\_base 1..5  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"

XX WO2004028458-A2.

PN 08-APR-2004.

XX 25-SEP-2003; 2003WO-US030374.

XX 25-SEP-2002; 2002US-0413549P.

XX (PHAA ) PHARMACIA CORP.

XX Gierse JK;

XX WPI; 2004-305094/28.

XX New antisense compound, having a sequence targeted to a nucleic acid  
 PT encoding mPGES-1, useful for preparing a composition for treating e.g.,  
 PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or  
 PT ischemia.

XX Claim 4; SEQ ID NO 1191; 132pp; English.

XX The present sequence represents a chimeric antisense oligonucleotide  
 CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The  
 CC human mPGES-1 gene is located on chromosome 9, more specifically to  
 CC 9q34.3. The present invention also describes: (1) antisense compounds,  
 CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding  
 CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and  
 CC inhibits its expression; (2) a method of inhibiting the expression of  
 CC mPGES-1 in cells or tissues; and (3) a method of treating an animal  
 CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric  
 CC antisense oligonucleotides and antisense compounds have cytostatic,  
 CC antidiabetic, immunomodulator, cardiant, neuroprotective,  
 CC ophthalmological, immunomodulatory and cardiovascular activities, and can  
 CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound  
 CC can be used for preparing a composition for treating a disease or  
 CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's  
 CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or  
 CC ophthalmic, immunological, cardiovascular or neurological disorder.

XX Sequence 20 BP; 11 A; 9 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2335 GTGTGTGTGTGTGTGTG 2351  
 |||||  
 Db 20 GTGTGTGTGTGTGTGTG 4

RESULT 774

ADO40832/C  
 ID ADO40832 standard; DNA; 20 BP.

XX ADO40832;

XX 12-AUG-2004 (first entry)

XX Human CRLR gene 5' flanking region PCR primer #2.

XX human; ss; primer; calcitonin receptor-like receptor; CRLR; hypertension;  
 KW glucocorticoid administration; tumour; vasodilation; angiogenesis;  
 KW gene therapy; PCR.

XX Homo sapiens.

XX WO2004044581-A2.

XX 27-MAY-2004.

XX 13-NOV-2003; 2003WO-GB004930.

XX 13-NOV-2002; 2002GB-00026497.

XX (ISIS-) ISIS INNOVATION LTD.

XX Mackenzie I, Rees CMP, Nikitenko LL, Bicknell R, Smith DM;

XX WPI; 2004-411760/38.

XX Use of calcitonin receptor-like receptor (CRLR) genes for determining if  
 PT a test compound can regulate expression of CRLR gene, for screening a  
 PT test compound to counteract hypertension in glucocorticoid administration  
 PT or for tumor therapy.

XX Example 4; Page 24; 43pp; English.

XX The invention relates to the use of the calcitonin receptor-like receptor  
 CC (CRLR) gene for determining whether a test compound can regulate  
 CC expression of CRLR gene, screening a test compound for ability to

CC counteract hypertension in the course of glucocorticoid administration to  
 CC a patient, diagnosing a lesion as a tumour, reducing the hypertensive  
 CC side effect of a glucocorticoid administration regime in a patient, or  
 CC for tumour therapy. The agents, e.g. adrenomedullin, CGRP or functional  
 CC analogues of the peptides are useful in manufacture of a preparation for  
 CC reducing the hypertensive side effect of a glucocorticoid administration  
 CC regime. The compound that up-regulates CRLR gene expression or the up-  
 CC regulator of CRLR gene promoter activity is also useful in the  
 CC manufacture of a preparation for reducing the hypertensive side-effect of  
 CC a glucocorticoid administration regime or for treating a condition where  
 CC it is desired to promote vasodilation and/or angiogenesis. The compound  
 CC that down-regulates CRLR expression in microvascular endothelial cells  
 CC under hypoxic conditions is useful in the manufacture of a medicament for  
 CC use in tumour therapy, e.g. a patient identified as having a tumour  
 CC exhibiting elevated CRLR or elevated corresponding mRNA. It is also  
 CC useful in the manufacture of a combined preparation for simultaneous,  
 CC sequential or combined administration of the compound with an  
 CC adrenomedullin binding inhibitor for tumour therapy. Glucocorticoid, or  
 CC an analogue is useful in the manufacture of a preparation for up-  
 CC regulating the CRLR gene promoter in micro vascular endothelial cells or  
 CC for up-regulating a glucocorticoid responsive promoter derived from a  
 CC CRLR gene in a vector administered for gene therapy. The compound  
 CC identifiable or identified as an up-regulator of CRLR gene promoter  
 CC activity is useful in the manufacture of a product for use in up-  
 CC regulating a glucocorticoid responsive promoter derived from a CRLR gene  
 CC in a vector administered for gene therapy. The present sequence  
 CC represents a human calcitonin receptor-like receptor, CRLR, gene 5'  
 CC flanking region PCR primer.

XX Sequence 20 BP; 8 A; 10 C; 1 G; 1 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2333 GCCTGTGTGTGTGTGTG 2349

DB 17 GCCTGTGTGTGTGTGTG 1

RESULT 775

ADP45829  
 ID ADP45829 standard; DNA; 20 BP.

XX ADP45829;

DT 26-AUG-2004 (first entry)

DE Extend primer 21 used to genotype human ICAM-1/ICAM-4/ICAM-5 SNP.

XX breast cancer; cytostatic; gene therapy; human;  
 KW intercellular adhesion molecule; ICAM-1; human rhinovirus receptor; BB2;  
 KW CD54; cell surface glycoprotein P3.58; ICAM-4;  
 KW Landsteiner-Wiener blood group; ICAM-5; telencephalin; chromosome 19p13;  
 KW ss; primer; PCR; SNP; single nucleotide polymorphism; probe.

XX Homo sapiens.

XX WO2004047623-A2.

PN 10-JUN-2004.

XX 25-NOV-2003; 2003WO-US037948.

XX 25-NOV-2002; 2002US-0429136P.

PR 24-JUL-2003; 2003US-0490234P.

XX (SEQU-) SEQUENOM INC.

XX Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;

DR WPI; 2004-441051/41.

XX

PT Identifying a subject at risk of breast cancer by detecting the presence  
 PT of polymorphic variations in the ICAM, MAPK10, KIAA0861, NUMA1 or GALE  
 PT regions which are associated with breast cancer in a nucleic acid sample  
 from a subject.

PS Example 4; Page 83; 289pp; English.

XX The invention relates to a novel method for identifying a subject at risk  
 CC of breast cancer comprising detecting the presence or absence of one or  
 CC more polymorphic variations associated with breast cancer in a nucleic  
 CC acid sample from a subject. The method of the invention has cytostatic  
 CC applications and may be useful for identifying a subject at risk of  
 CC breast cancer, for early diagnosis, prevention and treatment of breast  
 CC cancer, possibly via gene therapy, as well as to analyse and predict a  
 CC response to a breast cancer treatment and in clinical drug trials. The  
 CC current sequence is that of an Extend primer (also described as probe) of  
 CC the invention which was used to genotype human intercellular adhesion  
 CC molecule ICAM-1/ICAM-4/ICAM-5 gDNA. ICAM-1 (human rhinovirus receptor;BB2  
 CC ;CD54;cell surface glycoprotein P3.58) has been mapped to chromosomal  
 CC position 19p13.3-p13.2, ICAM-4 (Landsteiner-Wiener blood group;LW) has  
 CC been mapped to chromosomal position 19p13.2-cen and ICAM-5  
 CC (telencephalin) has been mapped to chromosomal position 19p13.2.

XX Sequence 20 BP; 1 A; 1 C; 10 G; 8 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.7e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2329 GTGTGCTGTGTGTGTG 2345

DB 4 GTGTGCTGTGTGTGTG 20

RESULT 776

AAQ34146  
 ID AAQ34146 standard; DNA; 23 BP.

XX AAQ34146;

XX 25-MAR-2003 (revised)

DT 02-FEB-1993 (first entry)

DE Sequence of a microsatellite from clone TGLA77.

XX PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;  
 KW genetic mapping; traits; amplification; ss.

XX Bos taurus.

XX WO9213102-A1.

XX 06-AUG-1992.

XX 15-JAN-1992; 92WO-US000340.

XX 15-JAN-1991; 91US-00642342.

XX (GENM-) GENMARK.

XX Georges M, Massey JW;

XX WPI; 1992-284684/34.

XX Polymorphic bovine DNA markers - used in genetic identification, gene  
 PT mapping, and selective breeding.

XX Table 7; Page 389; 517pp; English.

XX The sequence is that of a bovine microsatellite sequence obtd. by  
 CC screening a library of bovine MboI DNA fragments of between 250 and 500  
 CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50  
 CC clones cross-hybridised. Assuming independent distribution of

CC microsatellites and MboI sites, the frequency of (76)n > 9 microsatellites  
 CC in the bovine genome is estimated at >100, 000. The sequence information  
 CC for ca. 230 such bovine microsatellites is summarised in the  
 CC specification and indexed herein (see below). The sequences upstream and  
 CC downstream of the microsatellite sequence were used to generate the  
 CC required PCR primers for in vitro amplification of the corresp.  
 CC microsatellite (using the program OPRIPRIM). The microsatellites may be  
 CC used to identify individuals, for parentage testing, and in the genetic  
 CC mapping of economic trait loci, or genes involved in the determination of  
 CC economically important traits esp. in cattle, to allow selective  
 CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN  
 CC field.)  
 XX  
 SQ Sequence 23 BP; 0 A; 0 C; 12 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+03;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2335 GTGTGTGTGTGTGTGTG 2351

DB 1 GTGTGTGTGTGTGTGTG 17

RESULT 777  
 AAQ75505/c  
 ID AAQ75505 standard; DNA; 24 BP.

XX  
 AC AAQ75505;

XX 25-MAR-2003 (revised)

DT 28-JUN-1995 (first entry)

DE Capture probe CAP267.

XX Human papilloma virus; HPV; HPV16; HPV18; diagnosis; primer;  
 KW capture probe; hybridization; self-sustained sequence replication; 3SR;  
 KW E6 protein; E7 protein; cervical dysplasia; cervix cancer; ss.

XX Synthetic.

OS WO9426934-A2.

PN 24-NOV-1994.

XX 06-MAY-1994; 94WO-US005085.

XX 06-MAY-1993; 93US-00058920.

XX (BAXT ) BAXTER DIAGNOSTICS INC.

XX Brown JT;

XX WPI; 1995-006821/01.

XX Human papilloma virus detection assay - by amplification using self  
 PT sustained sequence replication and hybridisation with a detector probe.

PS Disclosure; Page 16; 79pp; English.

XX Self-sustained sequence replication is performed on HPV E6/E7 region mRNA  
 CC using 2 primers, one of which contains a transcriptional promoter, pref.  
 CC the phage T7 RNA-polymerase binding site (AAQ75512). Suitable primers are  
 CC given in AAQ75472-500. Amplified sequences are hybridized to capture  
 CC probes (AAQ75501-05), and hybridization is detected using detection  
 CC probes (AAQ75506-09, AAQ86975). Expression of E6/E7 is diagnostic for  
 CC cervical cancer or pre-malignancy states. (Updated on 25-MAR-2003 to  
 CC correct PN field.)

XX Sequence 24 BP; 9 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 17; DB 1; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+03;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2988 TTTTCTGGCACCAGCAG 3004

DB 21 TTTTCTGGCACCAGCAG 5

RESULT 778  
 AAQ44813/c  
 ID AAQ44813 standard; DNA; 20 BP.

XX AAQ44813;

XX 25-MAR-2003 (revised)

DT 28-SEP-1994 (first entry)

DE Pur-specific RACE primer EX-990.

XX Single-strand binding protein; PUR protein; cellular oncogene;  
 KW eukaryotic origin of replication; gene amplification; cancer cell;  
 KW retinoblastoma protein; helix-destabilising protein; inhibitor;  
 KW hyperproliferation; c-myc; rapid amplification of cDNA ends; ss.

XX Synthetic.

XX WO9405689-A1.

XX 17-MAR-1994.

XX 27-AUG-1993; 93WO-US008102.

XX 28-AUG-1992; 92US-00938189.

XX 02-FEB-1993; 93US-00014943.

XX (MOUN ) MOUNT SINAI SCHOOL MEDICINE.

XX Johnson EM, Bergemann AD;

XX WPI; 1994-101114/12.

XX Cloning and expression of PUR protein, involved in regulation of DNA  
 PT replication - also oligo-nucleotide(s) and antibodies for use in the  
 PT treatment of proliferative diseases, e.g. cancer.

XX Example 1; Page 11; 97pp; English.

XX Poly (A)+ RNA isolated from HepG2 cells was subjected to Rapid  
 CC Amplification of cDNA Ends (RACE) using Pur-specific primers AAQ44810-  
 CC Q44813 as part of the procedure for characterising the PUR protein. (The  
 CC PUR protein was originally identified as a 27kD HeLa cell nuclear factor  
 CC that bound in a sequence-specific manner to single-stranded PUR  
 CC elements). (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 20 BP; 9 A; 8 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2329 GTGTGCGTGTGTGTGTGT 2348

DB 20 GTATGCATGTGTGTGTGT 1

RESULT 779  
 AAX59720  
 ID AAX59720 standard; DNA; 20 BP.

XX AAX59720;

XX 22-JUL-1999 (first entry)

XX Modified oligonucleotide containing N3'-P5' phosphoramidates.

XX Oligodeoxyribonucleotide; intersubunit linkage;  
 KW phosphoramidate intersubunit; antisense activity; nuclease resistant;  
 KW in-vitro cell growth inhibition assay; infection;  
 KW smooth muscle cell proliferation disorder; inflammatory process;  
 KW genetic disorder; cancer; ss.  
 XX Synthetic.  
 OS  
 XX  
 XX Key Location/Qualifiers  
 FH modified\_base 1..8  
 FT /tag= a  
 FT /note= "each base is linked by N3'-P5' phosphoramidate  
 FT linkages"  
 XX  
 XX PN WO9525814-A1.  
 XX  
 XX PD 28-SEP-1995.  
 XX  
 XX PF 20-MAR-1995; 95WO-US003575.  
 XX  
 XX PR 18-MAR-1994; 94US-00210505.  
 XX  
 XX PR 18-MAR-1994; 94US-00214599.  
 XX  
 XX PA (LYNX-) LYNX THERAPEUTICS INC.  
 XX  
 XX PI Gryaznov SM, Schultz RG, Chen J;  
 XX WPI; 1995-344627/44.  
 XX  
 XX PT Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance  
 PT toward phosphodiesterase digestion, and form stable duplexes with DNA and  
 PT RNA strands.  
 XX  
 XX PS Disclosure; Page 55; 101pp; English.  
 XX  
 CC The specification describes oligodeoxyribonucleotides having contiguous  
 CC nucleoside subunits joined by intersubunit linkages, where at least 3  
 CC contiguous subunits are joined by phosphoramidate intersubunits. The  
 CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective  
 CC to form a duplex with a target nucleic acid molecule. The  
 CC oligodeoxyribonucleotides are more resistant to nuclease digestion and  
 CC have improved RNA and dsDNA hybridisation characteristics, relative to  
 CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They  
 CC also have excellent antisense activity against complementary mRNA targets  
 CC in in-vitro cell growth inhibition assays. They also exhibit low  
 CC cytotoxicity. They may be used in diagnostic and therapeutic  
 CC applications, e.g., in combatting infections agents such as bacteria,  
 CC viruses, etc. or in treatment of smooth muscle cell proliferation  
 CC disorders, inflammatory processes, certain genetic disorders, cancers,  
 CC etc. . The present sequence represents an oligonucleotide of the invention  
 XX  
 XX Sequence 20 BP; 8 A; 0 C; 0 G; 12 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. NO. 1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3463 TATATATATCTATATATATA 3482  
 DB 1 TATATATATTTTATATATA 20  
 RESULT 780  
 AAX59720/C  
 ID AAX59720 standard; DNA; 20 BP.  
 XX  
 XX AC AAX59720;  
 XX  
 XX DT 22-JUL-1999 (first entry)  
 XX  
 XX DE Modified oligonucleotide containing N3'-P5' phosphoramidates.  
 XX

KW Oligodeoxyribonucleotide; intersubunit linkage;  
 KW phosphoramidate intersubunit; antisense activity; nuclease resistant;  
 KW in-vitro cell growth inhibition assay; infection;  
 KW smooth muscle cell proliferation disorder; inflammatory process;  
 KW genetic disorder; cancer; ss.  
 XX Synthetic.  
 OS  
 XX  
 XX Key Location/Qualifiers  
 FH modified\_base 1..8  
 FT /tag= a  
 FT /note= "each base is linked by N3'-P5' phosphoramidate  
 FT linkages"  
 XX  
 XX PN WO9525814-A1.  
 XX  
 XX PD 28-SEP-1995.  
 XX  
 XX PF 20-MAR-1995; 95WO-US003575.  
 XX  
 XX PR 18-MAR-1994; 94US-00210505.  
 XX  
 XX PR 18-MAR-1994; 94US-00214599.  
 XX  
 XX PA (LYNX-) LYNX THERAPEUTICS INC.  
 XX  
 XX PI Gryaznov SM, Schultz RG, Chen J;  
 XX WPI; 1995-344627/44.  
 XX  
 XX PT Oligo:nucleotide N3'-P5' phosphoramidate(s) - have improved resistance  
 PT toward phosphodiesterase digestion, and form stable duplexes with DNA and  
 PT RNA strands.  
 XX  
 XX PS Disclosure; Page 55; 101pp; English.  
 XX  
 CC The specification describes oligodeoxyribonucleotides having contiguous  
 CC nucleoside subunits joined by intersubunit linkages, where at least 3  
 CC contiguous subunits are joined by phosphoramidate intersubunits. The  
 CC oligodeoxyribonucleotides has a sequence of nucleoside subunits effective  
 CC to form a duplex with a target nucleic acid molecule. The  
 CC oligodeoxyribonucleotides are more resistant to nuclease digestion and  
 CC have improved RNA and dsDNA hybridisation characteristics, relative to  
 CC oligonucleotides not containing N3'-P5' phosphoramidate linkages. They  
 CC also have excellent antisense activity against complementary mRNA targets  
 CC in in-vitro cell growth inhibition assays. They also exhibit low  
 CC cytotoxicity. They may be used in diagnostic and therapeutic  
 CC applications, e.g., in combatting infections agents such as bacteria,  
 CC viruses, etc. or in treatment of smooth muscle cell proliferation  
 CC disorders, inflammatory processes, certain genetic disorders, cancers,  
 CC etc. . The present sequence represents an oligonucleotide of the invention  
 XX  
 XX Sequence 20 BP; 8 A; 0 C; 0 G; 12 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. NO. 1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2823 TATATATACATATATATATA 2842  
 DB 20 TATATATATAAAATATATATA 1  
 RESULT 781  
 AAV01155  
 ID AAV01155 standard; DNA; 20 BP.  
 XX  
 XX AC AAV01155;  
 XX  
 XX DT 23-MAR-1998 (first entry)  
 XX  
 XX DE c-KIT protooncogene PCR primer for universal mammalian STS's.  
 XX  
 XX KW PCR primer; polymerase chain reaction; amplification; UM-STs;







XX WPI; 2000-656165/63.  
XX Cell comprising exogenous nucleic acid inducing tyrosine hydroxylase  
PT expression useful for treating catecholamine-related diseases such as  
PT Parkinson's disease, manic depression and schizophrenia.  
XX Example 1; Page 20; 68pp; English.  
XX The present invention describes the rat Nurrl coding and protein  
CC sequences. The Nurrl protein is involved in the induction of tyrosine  
CC hydroxylase expression in adult rat-derived hippocampal progenitor cells.  
CC The Nurrl gene and protein can be used in the treatment of catecholamine-  
CC related diseases such as Parkinson's disease, manic depression and  
CC schizophrenia. They can also be used to induce tyrosine hydroxylase  
CC expression and identify tyrosine hydroxylase related deficiencies, which  
CC are linked to the same diseases. The present sequence is a PCR primer  
CC used in a method to differentiate adult neural progenitor cells  
XX  
SQ Sequence 20 BP; 5 A; 6 C; 2 G; 5 T; 0 U; 2 Other;  
  
Query Match 0.4%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. No. 1e+03; 1; Indels 0; Gaps 0;  
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1666 ATGAGATCGCAGACTTCGG 1685  
Db 20 ATGAAGATHGCDGACTTTGG 1  
  
RESULT 787  
AAF91351/C  
ID AAF91351 standard; DNA; 20 BP.  
XX AAF91351;  
AC AAF91351;  
XX 04-MAY-2001 (first entry)  
DT Human E2F transcription factor 1 antisense oligonucleotide #57.  
DE Human E2F transcription factor 1; human; infection; inflammation;  
XX Antisense; E2F transcription factor 1; human; infection; inflammation;  
KW tumour; ss.  
KW Homo sapiens.  
XX US6187587-B1.  
XX 13-FEB-2001.  
XX 02-MAR-2000; 2000US-00517584.  
XX 02-MAR-2000; 2000US-00517584.  
XX (ISIS-) ISIS PHARM INC.  
PA Popoff I, Brown-Driver VL, Cowser LM;  
PI WPI; 2001-190981/19.  
XX Antisense compound capable of inhibiting the expression of E2F  
PT transcription factor 1, useful for preventing or delaying infection,  
PT inflammation or tumor formation.  
XX Claim 1; Col 43; 40pp; English.  
XX The present invention relates to antisense compounds up to 30 nucleobases  
CC in length targeted to a E2F transcription factor 1. The invention is  
CC useful for inhibiting the expression of E2F transcription factor 1 in  
CC cells or tissues. The antisense oligonucleotides may also be used as a  
CC research agent and to prevent infection, inflammation or tumours  
XX  
SQ Sequence 20 BP; 8 A; 9 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 2325 GTGTGTGTCGCGTGTGTGTGT 2344  
Db 20 GTGTGTGAGCATGTGTGTGTGT 1  
  
RESULT 788  
AAD35726/C  
ID AAD35726 standard; DNA; 20 BP.  
XX AAD35726;  
AC AAD35726;  
XX 26-JUL-2002 (first entry)  
DT Human hIbta4BP antisense oligonucleotide, ISIS #129427.  
DE Antisense; human Integrin beta 4 binding protein; hIbta4BP; cytostatic;  
XX cell proliferation; cancer; gene therapy; phosphorothioate backbone; ss.  
KW Homo sapiens.  
OS Homo sapiens.  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone"  
FT modified\_base 1..5  
FT /tag= b  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
FT modified\_base 3  
FT /tag= d  
FT /mod\_base= m5c  
FT modified\_base 5  
FT /tag= e  
FT /mod\_base= m5c  
FT modified\_base 6  
FT /tag= f  
FT /mod\_base= m5c  
FT modified\_base 11  
FT /tag= g  
FT /mod\_base= m5c  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
FT /note= "2'methoxyethyl nucleotides"  
XX US6355482-B1.  
XX 12-MAR-2002.  
XX 17-NOV-2000; 2000US-00716161.  
XX 17-NOV-2000; 2000US-00716161.  
XX (ISIS-) ISIS PHARM INC.  
XX Bennett CF, Freier SM;  
XX WPI; 2002-370579/40.  
XX New antisense compound targeted to a region of a nucleic acid encoding  
PT human Integrin beta 4 binding protein and that inhibits expression of the  
PT nucleic acid, for treating e.g. cancer.  
XX Claim 3; Col 44; 40pp; English.  
XX The invention relates to antisense compounds targeted to a nucleic acid  
CC encoding human Integrin beta 4 binding protein (hIbta4BP), which  
CC specifically hybridises with the nucleic acid and inhibits its

CC expression. The antisense compounds are useful to prevent or treat  
CC diseases associated with hlbeta4BP expression, particularly conditions  
CC involving aberrant or deregulated cell proliferation (e.g. cancer). The  
CC hlbeta4BP polynucleotide is used in gene therapy. The present sequence is  
CC an antisense oligonucleotide targeted to hlbeta4BP  
xx  
SQ Sequence 20 BP: 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other;

```

Query Match      0.4%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred.No.1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      718 AACACCACCGACACAGGAGCT 737
      ||| ||| ||| ||| ||| ||| ||| |||
Db      20 AATACCACCGACACGAGCT 1

```

RESULT 789	
AAAD22911/c	
ID	AAAD22911 standard; DNA; 20 BP.
XX	
AC	AAAD22911;
XX	
DT	26-FEB-2002 (first entry)
XX	
DE	Human soluble LIGHT DNA generating mutagenic forward PCR primer #4.
XX	
KW	Human; herpes virus entry-mediated; HVEM; p30; immunosuppressive; tumour;
KW	inflammatory disorder; herpes virus infection; lymphocyte proliferation;
KW	neuroprotective; dermatological; virucide; gene therapy; PCR primer; SLS;
KW	systemic lupus erythematosus; autoimmune disease; diabetes mellitus;
KW	rheumatoid arthritis; multiple sclerosis; myasthenia gravis; LIGHT; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO200179496-A2.
XX	
PD	25-OCT-2001.
XX	
PF	11-APR-2001; 2001WO-US011857.
XX	
PR	12-APR-2000; 2000US-00549096.
XX	
PA	(LJOL-) LA JOLLA INST ALLERGY & IMMUNOLOGY.
XX	
PI	Ware CF;
XX	
DR	WPI: 2002-026029/03.

Example 12; Page 59; 104pp; English.

The invention relates to an isolated or recombinant homotrimeric p30 polypeptide comprising a monomer polypeptide with a molecular weight of 30 kDa. p30 is found on the membrane protein and also functions as a cytokine. p30 is also called LIGHT because this is homologous to lymphotaxin, exhibits inducible expression, and competes with HSV Glycoprotein D for HVEM, a receptor expressed T lymphocytes.p30 binds to lymphotaxin beta receptor or to herpes virus entry-mediated polypeptide (HVEM). p30 is useful for inhibiting virus production in cells and for modulating a lymphotaxin beta receptor (LT $\beta$  SR)-mediated cellular response. p30 is useful for treating inflammatory disorders, tumours, for blocking the entry of herpes virus into cells, and to treat or prevent herpes virus infections such as beta herpes virus and cytomegalovirus. p30 is also useful for inhibiting p30-mediated cellular response e.g., inhibition of a lymphocyte (a pathogenic effector cell) cellular response such as lymphocyte proliferation. The inhibited lymphocyte response modulates a T or B lymphoma or an autoimmune disease such as rheumatoid arthritis, insulin dependent diabetes mellitus, multiple sclerosis, CC

CC systemic lupus erythematosus (SLE) or myasthenia gravis. Also, the  
CC inhibited lymphocyte response modulates a reaction to a transplant. p30  
CC DNA is used in gene therapy. The present sequence is a mutagenic PCR  
CC primer used for generating soluble LIGHT DNA also referred as p30  
xx Sequence 20 BP; 3 A; 6 C; 7 G; 4 T; 0 U; 0 Other;

```

Query Match      0.4%; Score 15.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. fe+03;
Matches 18; Conservative 0; Mismatches 2; Indels

Qy      2110 AGTCCAGCTCCTCAGGGGA 2129
          |||||
Db       20 AGCTCCAGCTCCTCGGGGAA 1
          |||||

```

RESULT 790	
ABX80012/c	
ID	ABX80012 standard; CDNA; 20 BP.
XX	
XX	ABX80012;
XX	
XX	17-APR-2003 (first entry)
DT	
XX	
DE	EST polymorphic DNA repeat polynucleotide #37.
XX	
KW	EST; expressed sequence tag; ss; polymorphic repeat; tandem repeat;
KW	polymorphic marker prediction of ubiquitous simple sequences; POMPOUS;
KW	Rep-X; human; genetic disease; drug-treatment; Machado-Joseph;
KW	Haw River syndrome; Huntington's disease; fragile-X syndrome;
KW	Friedreich's ataxia; myotonic dystrophy; hyperandrogenaemia;
KW	spinal atrophy; bulbar atrophy; spinocerebellar ataxia.
XX	
OS	Homo sapiens.
XX	

XX	US6472154-B1.	
PN		
XX		
XX	29-OCT-2002.	
PD		
PD		
XX		
XX	31-DEC-1999;	99US-00475947.
PF		
XX		
XX	31-DEC-1999;	99US-00475947.
PR		
PR		
XX	(TEXA ) UNIV TEXAS SYSTEM.	
PA		
XX		
XX	Garner HR, Wren JD, Minna JD, Fondon JW	
PI		
XX	WPI: 2003-208818/20.	
XX		
DR		

XX Identifying a candidate polymorphic repeat within a coding sequence, for  
PT understanding or treating genetic disease, comprises detecting tandem  
PT repeats in a target coding sequence and scoring the repeats for  
PT polymorphic probability.  
XX  
PS Example: Col 1165: 588bp: English

The invention discloses a method for identifying a candidate polymorphic repeat within a coding sequence (expressed sequence tag, EST), which comprises detecting tandem repeats in a target coding sequence, scoring the repeats for polymorphic probability and generating a dataset correlating the repeats with polymorphic probability to identify a candidate polymorphic repeat. The computational methods (polymorphic marker prediction of ubiquitous simple sequences, POMPOUS, and Rep-X) are useful for identifying and detecting candidate polymorphic repeats in human genes, which can be used to understand, treat or eliminate genetic diseases, predispositions or adverse drug-treatment reactions. Examples of diseases linked to nucleotide repeats are Machado-Joseph, Haw River syndrome, Huntington's disease, fragile-X syndrome, Friedrich's ataxia, myotonic dystrophy, hyperandrogenaemia, spinal and bulbar atrophy and spinocerebellar ataxia. The sequences presented in ABX79676-ABX80022 are the polymorphic repeats identified for a search of human ESTs.

Sequence 20 BP; 9 A; 11 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2313 TGGTCTGTGTGTGTGTGT 2332  
 DB 20 TGGGTGTGTGTGTGTGT 1

RESULT 791  
 ABZ81533/C  
 ID ABZ81533 standard; DNA; 20 BP.  
 XX  
 AC ABZ81533;  
 XX  
 DT 26-AUG-2003 (first entry)  
 XX  
 DE PKA regulatory subunit RII beta antisense oligonucleotide ISIS #114458.  
 XX  
 DE Human; cytostatic; antidiabetic; antisense therapy; phosphorothioate;  
 KW protein kinase inhibitor; protein kinase A; PKA;  
 KW regulatory subunit RII beta; cAMP-dependent protein kinase; diabetes;  
 KW cancer; infection; inflammation; tumour; ss.  
 XX  
 OS Synthetic.

XX Key Location/Qualifiers  
 FH modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "Oligonucleotide has phosphorothioate backbone and  
 all cytidine nucleotides are 5-methylcytidine. Optionally  
 some nucleotides with 2'-methoxyethyl (2'-MOE wings)  
 modification"

XX WO2003010283-A2.  
 XX  
 XX 06-FEB-2003.  
 XX  
 XX 15-JUL-2002; 2002WO-US022629.  
 XX  
 XX 25-JUL-2001; 2001US-00915485.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Monia BP, Wyatt JR;  
 XX  
 XX WPI; 2003-239434/23.  
 XX  
 XX New antisense oligonucleotides targeted to nucleic acid encoding protein  
 PT Kinase A regulatory subunit RII beta, useful in treating diseases e.g.  
 PT cancer associated with the aberrant expression of the protein kinase.  
 XX  
 XX Claim 3; Page 74; 98pp; English.

XX The present invention relates to novel antisense oligonucleotides  
 CC (ABZ81522-ABZ81593) which are targeted to human protein kinase A (PKA)  
 CC regulatory subunit RII beta nucleotide sequence (ABZ81513), and which  
 CC specifically hybridise with and inhibit the expression of the PKA  
 CC regulatory subunit RII beta (PKA is also known as cAMP-dependent protein  
 CC kinase). The antisense oligonucleotides are useful for modulating the  
 CC expression of PKA regulatory subunit RII beta and for treating diseases  
 CC or conditions associated with aberrant expression of PKA regulatory  
 CC subunit RII beta, e.g. diabetes or cancer. The antisense compounds are  
 CC also useful for diagnostics, therapeutics, prophylaxis, e.g. to prevent  
 CC or delay infection, inflammation or tumour formation, as research  
 CC reagents and kits, and in distinguishing between functions of various  
 CC members of a biological pathway

XX Sequence 20 BP; 0 A; 13 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 177 CGAGACGGGGGAGGAGG 196  
 DB 20 CGAGACGGGGGAGGAGG 1

RESULT 792  
 ABZ89549  
 ID ABZ89549 standard; DNA; 20 BP.  
 XX  
 AC ABZ89549;  
 XX  
 DT 17-OCT-2003 (first entry)  
 XX  
 DE Human oligonucleotide sequence.  
 XX  
 DE Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200285308-A2.  
 XX  
 XX 31-OCT-2002.  
 XX  
 XX 23-APR-2002; 2002WO-US013135.  
 XX  
 XX 24-APR-2001; 2001US-0286137P.  
 XX  
 XX (EPTG-) EPIGENESIS PHARM INC.  
 XX  
 XX Nyce JW, Li Y, Sandrasegura A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 XX WPI; 2003-229219/22.  
 XX  
 XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX  
 XX Disclosure; SEQ ID NO 4791; 872pp; English.

XX The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 20 BP; 1 A; 2 C; 8 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2325 GTGTGTGCGTGTGTGTGT 2344  
 ||| ||||| ||||| |||||  
 Db 1 GTATGTGCGTGTGTGTGT 20

RESULT 793  
 AB284884  
 ID AB284884 standard; DNA; 20 BP.

XX AC AB284884;

XX DT 17-OCT-2003 (first entry)

XX DE Human oligonucleotide sequence.

XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytotatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.

XX OS Homo sapiens.

XX PN WO200285308-A2.

XX PD 31-OCT-2002.

XX PF 23-APR-2002; 2002WO-US013135.

XX PR 24-APR-2001; 2001US-0286137P.

XX PA (EPIG-) EPIGENESIS PHARM INC.

XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 XX PI Miller S, Tang L, Shahabuddin S;

XX DR WPI; 2003-229219/22.

XX PT Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.

XX PS Claim 15; SEQ ID NO 126; 872pp; English.

XX CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytotatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction.  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 20 BP; 0 A; 7 C; 4 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3644 GCTGTCCCTTGTGCTGC 3663  
 ||| ||||| ||||| |||||  
 Db 1 GCTGTCCCTTTTGTGCTGC 20

RESULT 794  
 AB288076

XX ID AB288076 standard; DNA; 20 BP.

XX AC AB288076;

XX DT 17-OCT-2003 (first entry)

XX DE Human oligonucleotide sequence.

XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytotatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.

XX OS Homo sapiens.

XX PN WO200285308-A2.

XX PD 31-OCT-2002.

XX PF 23-APR-2002; 2002WO-US013135.

XX PR 24-APR-2001; 2001US-0286137P.

XX PA (EPIG-) EPIGENESIS PHARM INC.

XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 XX PI Miller S, Tang L, Shahabuddin S;

XX DR WPI; 2003-229219/22.

XX PT Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.

XX PS Disclosure; SEQ ID NO 3318; 872pp; English.

XX CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytotatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction.  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03;		Best Local Similarity 90.0%; Pred. No. 1e+03;	
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
QY	1876 GAGGAGCTCTTCAAGCTGCT 1895	QY	1886 TCAAGCTGCTGAAGGAGGAC 1905
DB	1 GAGGAGCTCAACAAGCTGCT 20	DB	20 TCAAGCTGCTGAGGAGGAC 1
RESULT 795		RESULT 796	
ABZ98946/c		AAD5047/c	
ID ABZ98946 standard; DNA; 20 BP.		ID AAD5047 standard; DNA; 20 BP.	
XX	XX	XX	XX
AC	ABZ98946;	AC	AAD5047;
XX	XX	XX	XX
DT	17-OCT-2003 (first entry)	DT	26-JUN-2003 (first entry)
XX	XX	XX	XX
DE	Human PDE4A oligonucleotide sequence.	DE	Alstroemeria gad3 gene amplifying primer, NW23.
XX	XX	XX	XX
KW	Human; antisense; lung dysfunction; nasal airway dysfunction;	KW	Alpha-methylene-gamma-butyrolactone; glutamate decarboxylase; herbicide;
KW	antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;	KW	enzyme; gamma-aminobutyrate aminotransferase; UDP-glucosyltransferase;
KW	antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;	KW	gamma-hydroxybutyrate dehydrogenase; tulipalin A; plant; primer; PCR; ss.
KW	antisense gene therapy; respiratory; lung; adenosine sensitivity;	XX	Alstroemeria.
KW	adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;	OS	Alstroemeria.
KW	lung inflammation; respiratory disease; ds.	XX	XX
XX	XX	PN	WO2002101013-A2.
OS	Homo sapiens.	XX	XX
XX	XX	PD	19-DEC-2002.
PN	WO200283308-A2.	XX	XX
XX	XX	PF	10-JUN-2002; 2002WO-US018230.
PD	31-OCT-2002.	XX	XX
PF	23-APR-2002; 2002WO-US013135.	PR	08-JUN-2001; 2001US-0297198P.
XX	XX	XX	XX
PR	24-APR-2001; 2001US-0286137P.	PA	(DUPO) DU PONT DE NEMOURS & CO E I.
XX	XX	PA	(PRAB/) PRABHU V.
PA	(EPITG-) EPIGENESIS PHARM INC.	XX	XX
XX	XX	PI	Damude HG, Flint D, Prabhu V, Wang H;
PI	Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;	XX	XX
PI	Miller S, Tang L, Shahabuddin S;	DR	WPI; 2003-201331/19.
XX	XX	XX	XX
DR	WPI; 2003-229219/22.	PT	Novel isolated nucleic acid fragment encoding a tuliposide A synthesizing
XX	XX	PT	protein, useful for creating recombinant organisms that have the ability
PT	Pharmaceutical composition for treating ailments associated with impaired	PT	to synthesize tulipalin A, tuliposide A or tuliposide A pathway
PT	respiration, has oligo(s) antisense to specific gene(s) or its	PT	intermediates.
PT	corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or	PS	Example 3; Page 135; 71pp; English.
PT	ubiquinone.	XX	XX
XX	XX	XX	XX
PS	Disclosure; SEQ ID NO 14188; 872pp; English.	CC	The invention relates to genes encoding key enzymes in the biosynthesis
XX	XX	CC	of alpha-methylene-gamma-butyrolactone (tulipalin A). Key enzymes include
CC	The invention relates to a novel pharmaceutical composition, which has a	CC	glutamate decarboxylase, gamma-aminobutyrate aminotransferase, gamma-
CC	first active agent comprising an oligonucleotide antisense to the	CC	hydroxybutyrate dehydrogenase and UDP-glucosyltransferase. The invention
CC	initiation codon, coding region, 5' or 3' end genomic flanking regions,	CC	is useful for producing tulipalin A or tuliposide A or its pathway
CC	5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of	CC	intermediates such as alpha-methylenesuccinate semialdehyde, alpha-
CC	junctions of genes encoding a polypeptide associated with lung and/or	CC	methylenegamma-aminobutyrate or alpha-methylene-gamma-hydroxybutyrate.
CC	nasal airway dysfunction and a second active agent comprising an	CC	Tulipalin A sequences are used to immunise animals to produce polyclonal
CC	antiinflammatory steroid and ubiqunone. A composition of the invention	CC	or monoclonal antibodies with specificity for them or as targets to
CC	has antiinflammatory, antiallergic, antiasthmatic, hypotensive,	CC	facilitate design and/or identification of inhibitors of those enzymes
CC	immunosuppressive, and cytostatic activity. The composition may have a	CC	that may be useful as herbicides. The present sequence is a primer used
CC	use in antisense gene therapy. The composition is useful for treating or	CC	to amplify Alstroemeria glutamate decarboxylase homologue gene (gad3)
CC	preventing a respiratory, lung or malignant disease or condition, also	XX	Sequence 20 BP; 6 A; 7 C; 2 G; 5 T; 0 U; 0 Other;
CC	for enhancing the prophylactic or therapeutic respiratory effect of an	XX	XX
CC	antiinflammatory steroid in a subject, for reducing or depleting levels	Query Match	0.4%; Score 16.8; DB 1; Length 20;
CC	of, or reducing sensitivity to adenosine, reducing levels of adenosine	Best Local Similarity	90.0%; Pred. No. 1e+03;
CC	receptor, producing bronchodilation, increasing levels of ubiqunone or	Matches 18; Conservative	0; Mismatches 2; Indels 0; Gaps 0;
CC	lung surfactant in a subject's tissue, or treating bronchoconstriction,	QY	883 GGCAGTGTGTATGCAGGCAT 902
CC	lung inflammation, lung allergies, or a respiratory disease or condition.	DB	20 GGCATTGTGTATGCAGGAAT 1
CC	Note: The sequence data for this patent is not represented in the printed	XX	XX
CC	specification, but was obtained in electronic format directly from WIPO	XX	XX
CC	at ftp.wipo.int/pub/published_pct_sequences	RESULT 797	
XX	XX	ABD24306	
XX	XX	ID ABD24306 standard; DNA; 20 BP.	

XX AC ABD24306;  
 XX DT 29-JUL-2004 (first entry)  
 XX DE AT095013-derived oligonucleotide DNA SEQ ID 3318.  
 XX DE Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 XX KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 XX KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 XX KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 XX KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 XX KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 XX KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 XX KW pulmonary transplantation rejection; ss; primer.  
 XX OS Homo sapiens.  
 XX PN WO200285309-A2.  
 XX PD 31-OCT-2002.  
 XX PP 23-APR-2002; 2002WO-US013143.  
 XX PR 24-APR-2001; 2001US-0286036P.  
 XX PA (EPIG-) EPIGENESIS PHARM INC.  
 XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 XX PI Miller S, Tang L, Shahabuddin S;  
 XX DR WPI; 2003-093058/08.  
 XX PT Pharmaceutical composition for treating asthma, has antisense  
 XX PT oligonucleotide containing less percentage of adenosine, targeted to  
 XX PT nucleic acids associated with lung airway or lung dysfunction, and  
 XX PT bronchodilating agent.  
 XX PS Claim 15; SEQ ID NO 3318; 763pp; English.  
 XX CC This invention describes a novel composition (a) a first active agent,  
 XX CC comprising oligonucleotides, effective for alleviating  
 XX CC bronchoconstriction, respiratory tract inflammation, allergies and  
 XX CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 XX CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 XX CC oligonucleotides are derived from a gene encoding or regulating  
 XX CC expression of a target polypeptide associated with lung airway or lung  
 XX CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 XX CC The invention also describes a kit, that comprises: (a) a delivery  
 XX CC device, in separate containers, (b) the oligonucleotides, (c)  
 XX CC instructions for adding a carrier and for use of the kit. The composition  
 XX CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
 XX CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 XX CC beta-adrenergic agonist. The composition is useful for preventing or  
 XX CC treating a respiratory, lung or malignant disease. The administered  
 XX CC composition comprises oligo and is administered to reduce the production  
 XX CC or availability, or to increase the degradation of the target mRNA or to  
 XX CC reduce the amount of target polypeptide present in the lungs. The  
 XX CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 XX CC inflammation, allergies and/or surfactant hypoproduction are associated  
 XX CC with a disease or condition such as pulmonary vasoconstriction,  
 XX CC inflammation, allergies, asthma, impeded respiration, respiratory  
 XX CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 XX CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 XX CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 XX CC The reduced adenosine content of the anti-sense oligos corresponding to  
 XX CC thymidines present in the target RNA serves to prevent the breakdown of  
 XX CC the oligonucleotides into products that free adenosine into the system  
 XX CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 XX CC prevent any unwanted effects due to it

XX SQ Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e-03; Indels 0; Gaps 0;  
 Matches 18; Conservative 0; Mismatches 2;  
 QY 1876 GAGGAGCTCTTCAAGCTGCT 1895  
 DB 1 GAGGAGCTCAACAGCTGCT 20  
 RESULT 798  
 ID ABD31977/c  
 XX ABD31977 standard; DNA; 20 BP.  
 AC ABD31977;  
 XX 29-JUL-2004 (first entry)  
 DT Human PDE4A-derived oligonucleotide SEQ ID 14188.  
 DE Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 XX KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 XX KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 XX KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 XX KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 XX KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 XX KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 XX KW pulmonary transplantation rejection; ss; primer.  
 XX OS Homo sapiens.  
 XX PN WO200285309-A2.  
 XX PD 31-OCT-2002.  
 XX PP 23-APR-2002; 2002WO-US013143.  
 XX PR 24-APR-2001; 2001US-0286036P.  
 XX PA (EPIG-) EPIGENESIS PHARM INC.  
 XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 XX PI Miller S, Tang L, Shahabuddin S;  
 XX DR WPI; 2003-093058/08.  
 XX PT Pharmaceutical composition for treating asthma, has antisense  
 XX PT oligonucleotide containing less percentage of adenosine, targeted to  
 XX PT nucleic acids associated with lung airway or lung dysfunction, and  
 XX PT bronchodilating agent.  
 XX PS Claim 15; SEQ ID NO 14188; 763pp; English.  
 XX CC This invention describes a novel composition (a) a first active agent,  
 XX CC comprising oligonucleotides, effective for alleviating  
 XX CC bronchoconstriction, respiratory tract inflammation, allergies and  
 XX CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 XX CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 XX CC oligonucleotides are derived from a gene encoding or regulating  
 XX CC expression of a target polypeptide associated with lung airway or lung  
 XX CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 XX CC The invention also describes a kit, that comprises: (a) a delivery  
 XX CC device, in separate containers, (b) the oligonucleotides, (c)  
 XX CC instructions for adding a carrier and for use of the kit. The composition  
 XX CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
 XX CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 XX CC beta-adrenergic agonist. The composition is useful for preventing or  
 XX CC treating a respiratory, lung or malignant disease. The administered  
 XX CC composition comprises oligo and is administered to reduce the production  
 XX CC or availability, or to increase the degradation of the target mRNA or to  
 XX CC reduce the amount of target polypeptide present in the lungs. The  
 XX CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 XX CC inflammation, allergies and/or surfactant hypoproduction are associated  
 XX CC with a disease or condition such as pulmonary vasoconstriction,

This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposcretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery



XX PS Claim 15; SEQ ID NO 4791; 763pp; English.

XX CC This invention describes a novel composition (a) a first active agent,

XX CC comprising oligonucleotides, effective for alleviating

XX CC bronchoconstriction, respiratory tract inflammation, allergies and

XX CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,

XX CC surfactant depletion or hyposcretion, when administered to a mammal. The

XX CC oligonucleotides are derived from a gene encoding or regulating

XX CC expression of a target polypeptide associated with lung airway or lung

XX CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.

XX CC The invention also describes a kit, that comprises: (a) a delivery

XX CC device, in separate containers, (b) the oligonucleotides, (c)

XX CC instructions for adding a carrier and for use of the kit. The composition

XX CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,

XX CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a

XX CC beta-adrenergic agonist. The composition is useful for preventing or

XX CC treating a respiratory, lung or malignant disease. The administered

XX CC composition comprises oligo and is administered to reduce the production

XX CC or availability, or to increase the degradation of the target mRNA or to

XX CC reduce the amount of target polypeptide present in the lungs. The

XX CC pulmonary obstruction, and/or bronchoconstriction and/or lung

XX CC inflammation, allergies and/or surfactant hypoproduction are associated

XX CC with a disease or condition such as pulmonary vasoconstriction,

XX CC inflammation, allergies, asthma, impeded respiration, respiratory

XX CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary

XX CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary

XX CC transplantation rejection, pulmonary infections, bronchitis or cancer.

XX CC The reduced adenosine content of the anti-sense oligos corresponding to

XX CC thymidines present in the target RNA serves to prevent the breakdown of

XX CC the oligonucleotides into products that free adenosine into the system

XX CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to

XX CC prevent any unwanted effects due to it

XX CC

XX SQ Sequence 20 BP; 1 A; 2 C; 8 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2325 GTCTGTGTCGCTGTGTGT 2344

DB 1 GTATGTGTGCTGTGTGT 20

RESULT 801

ADH70402

ID ADH70402 standard; DNA; 20 BP.

XX AC ADH70402;

XX DT 25-MAR-2004 (first entry)

XX DE Human Vbeta gene repeat sequence #192.

XX KW human; T-cell associated disease; Vbeta; autoimmune disease;

XX KW degenerative nervous system disease; graft versus host disease;

XX KW hypersensitivity disease; infectious disease; neoplastic disease;

XX KW Addison's disease; atrophic gastritis;

XX KW degenerative nervous system disease; multiple sclerosis;

XX KW Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;

XX KW allergy; type II hypersensitivity; Goodpasture's syndrome;

XX KW type IV hypersensitivity; leprosy; infectious disease; viral infection;

XX KW HIV; fungal infection; Candida; parasitic infection; schistosoma;

XX KW filaria; bacterial infection; Mycobacterium; neoplastic disease;

XX KW lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;

XX KW breast cancer; ds.

OS Homo sapiens.

XX US2002150891-A1.

PN 17-OCT-2002.

XX PD

XX PF 05-MAR-1999; 99US-00263959.

XX PR 19-SEP-1994; 94US-00309335.

XX PR 19-SEP-1995; 95US-00531241.

XX PA (HOOD/) HOOD L E.

XX PA (ROWE/) ROWEN L.

XX PI Hood LE, Rowen L;

XX PI WPI; 2004-059052/06.

XX DR Kit for diagnosing and treating T-cell associated diseases e.g.

XX PT autoimmune, degenerative nervous system and infectious disease, comprises

XX PT nucleic acid primers specifically priming and allowing amplification of a

XX PT Vbeta gene.

XX PS Disclosure; SEQ ID NO 596; 164pp; English.

XX CC The invention relates to a kit for diagnosing and treating T-cell

XX CC associated diseases which comprises a panel of nucleic acid primers

XX CC specifically priming and allowing amplification of each Vbeta gene,

XX CC VbetarNA or cDNA. The kit is useful for diagnosing organ transplant

XX CC rejection and diagnosing and treating T-cell associated diseases

XX CC including autoimmune diseases, degenerative nervous system diseases,

XX CC graft versus host diseases, hypersensitivity diseases, infectious diseases

XX CC and neoplastic diseases. Autoimmune diseases include Addison's disease,

XX CC atrophic gastritis. Degenerative nervous system diseases include multiple

XX CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type

XX CC I hypersensitivities such as contact with allergens that lead to

XX CC allergies, Type II hypersensitivities such as those present in

XX CC Goodpasture's syndrome and Type IV hypersensitivities such as those

XX CC manifested in leprosy. Infectious diseases include viral infections

XX CC caused by viruses such as HIV, fungal infections such as those caused by

XX CC the yeast genus Candida, parasitic infections such as those caused by

XX CC schistosomes, filaria and bacterial infections such as those caused by

XX CC Mycobacterium. Neoplastic diseases include lymphoproliferative diseases

XX CC such as leukaemias, lymphomas and cancers such as cancer of the brain,

XX CC breast. The present sequence represents a Vbeta gene repeat sequence.

XX SQ Sequence 20 BP; 8 A; 0 C; 0 G; 12 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 20;

Best Local Similarity 90.0%; Pred. No. 1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3463 TATATATATCTATATATATA 3482

DB 1 TATATATATTTATTTATATA 20

RESULT 802

ADH70402/c

ID ADH70402 standard; DNA; 20 BP.

XX AC ADH70402;

XX DT 25-MAR-2004 (first entry)

XX DE Human Vbeta gene repeat sequence #192.

XX KW human; T-cell associated disease; Vbeta; autoimmune disease;

XX KW degenerative nervous system disease; graft versus host disease;

XX KW hypersensitivity disease; infectious disease; neoplastic disease;

XX KW Addison's disease; atrophic gastritis;

XX KW degenerative nervous system disease; multiple sclerosis;

XX KW Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;

XX KW allergy; type II hypersensitivity; Goodpasture's syndrome;

XX KW type IV hypersensitivity; leprosy; infectious disease; viral infection;

XX KW HIV; fungal infection; Candida; parasitic infection; schistosoma;

XX KW filaria; bacterial infection; Mycobacterium; neoplastic disease;

XX KW lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;

KW breast cancer; ds.  
 XX Homo sapiens.  
 OS US2002150891-A1.  
 XX 17-OCT-2002.  
 XX 05-MAR-1999; 99US-00263959.  
 XX 19-SEP-1994; 94US-00309335.  
 XX 19-SEP-1995; 95US-00531241.  
 XX (HOOD/) HOOD L E.  
 XX (KOWE/) ROWEN L.  
 PA Hood LE, Rowen L;  
 PI WPI; 2004-059052/06.  
 DR  
 XX  
 XX Kit for diagnosing and treating T-cell associated diseases e.g.  
 PT autoimmune, degenerative nervous system and infectious disease, comprises  
 PT nucleic acid primers specifically priming and allowing amplification of a  
 PT Vbeta gene.  
 XX  
 XX Disclosure; SEQ ID NO 596; 164pp; English.  
 XX  
 XX The invention relates to a kit for diagnosing and treating T-cell  
 CC associated diseases which comprises a panel of nucleic acid primers  
 CC specifically priming and allowing amplification of each Vbeta gene,  
 CC VbetARNA or cDNA. The kit is useful for diagnosing organ transplant  
 CC rejection and diagnosing and treating T-cell associated diseases  
 CC including autoimmune diseases, degenerative nervous system diseases,  
 CC graft versus host disease, hypersensitivity diseases, infectious diseases  
 CC and neoplastic diseases. Autoimmune diseases include Addison's disease,  
 CC atrophic gastritis. Degenerative nervous system diseases include multiple  
 CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type  
 CC I hypersensitivities such as contact with allergens that lead to  
 CC allergies, Type II hypersensitivities such as those present in  
 CC Goodpasture's syndrome and Type IV hypersensitivities such as those  
 CC manifested in leprosy. Infectious diseases include viral infections  
 CC caused by viruses such as HIV, fungal infections such as those caused by  
 CC the yeast genus Candida, parasitic infections such as those caused by  
 CC schistosomes, filaria and bacterial infections such as those caused by  
 CC Mycobacterium. Neoplastic diseases include lymphoproliferative diseases  
 CC such as leukaemias, lymphomas and cancers such as cancer of the brain,  
 CC breast. The present sequence represents a Vbeta gene repeat sequence.  
 XX  
 SQ Sequence 20 BP; 8 A; 0 C; 0 G; 12 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 18; Conservative 0; Mismatches 0;  
 QY 2825 TATATACATATATATATATATA 2844  
 DB 20 TATATAAATAATATATATA 1  
 RESULT 803  
 ADH68620/c  
 ID ADH68620 standard; DNA; 20 BP.  
 XX  
 AC ADH68620;  
 XX  
 DT 25-MAR-2004 (first entry)  
 XX  
 DE Rosa sp forward PCR primer for microsatellite marker RMS129.  
 XX  
 KW microsatellite marker; rose genome; PCR; hypervariable region;  
 KW genetic mapping; relatedness analysis; hybrid identification; plant;  
 KW breeding; primer; ss.  
 XX

OS Rosa sp.  
 XX WO2003097869-A2.  
 XX  
 PD 27-NOV-2003.  
 XX  
 PF 16-MAY-2003; 2003WO-DE001572.  
 XX  
 PR 17-MAY-2002; 2002DE-01022632.  
 XX  
 PA (CONC-) CON CIPIO GMBH.  
 XX  
 PI Sues K;  
 XX  
 XX WPI; 2004-012541/01.  
 DR  
 XX  
 PT New oligonucleotides from rose microsatellite markers, useful for genomic  
 PT analysis, including identification of varieties and hybrids.  
 XX  
 PS Claim 1; Page 11; 52pp; German.  
 XX  
 XX This invention describes novel oligonucleotides derived from  
 CC microsatellite markers and used for the amplification of the rose genome.  
 CC The invention also describes a test kit for genetic analysis of cultured  
 CC or wild forms of the genus Rosa sp. that contains at least one of the new  
 CC oligonucleotide primers and preparing microsatellite markers of Rosa sp.  
 CC by PCR amplification of hypervariable genomic regions, using at least one  
 CC primer pair, to produce polymorphic fragments which are separated and  
 CC detected. The primer pairs flank the microsatellite locus being  
 CC amplified. The amplified markers are separated by electrophoresis,  
 CC especially on high-resolution agarose or native or denatured  
 CC polyacrylamide gels, or by mass spectrometry. After separation, the  
 CC amplicons are detected by staining (ethidium bromide or silver),  
 CC radioactive labelling and autoradiography, automated sequencing using  
 CC primers labelled with dyes or fluorophores or by mass spectrometry. A  
 CC genomic library of 0.5-1.5 kb fragments from the rose variety  
 CC 'Lichtblick' was constructed in pUC18 and used to transform Escherichia  
 CC coli and the cells tested against a high-density array of synthetic  
 CC microsatellites. Inserts in plasmids that hybridised were sequenced and  
 CC the identified sequences selected for ability to differentiate between a  
 CC set of 30 rose varieties. The oligonucleotides are used for genetic  
 CC analysis of cultivated and wild types of roses, particularly for genetic  
 CC mapping and labelling of mono- or poly-genic traits, selection, analysis  
 CC of relatedness, identification of varieties and evaluation of varietal  
 CC purity, identification of hybrids and plant breeding. The  
 CC oligonucleotides are useful in automated processes, do not require  
 CC radioactive detection methods and can differentiate between almost all  
 CC commercial rose varieties. ADH68375-ADH68674 represent the PCR primers  
 CC used to amplify the Rose microsatellite regions described in the method  
 CC of the invention.  
 XX  
 SQ Sequence 20 BP; 7 A; 9 C; 2 G; 2 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 18; Conservative 0; Mismatches 0;  
 QY 2337 GTGTGTGTGTGTGTGCACAT 2356  
 DB 20 GTGTGTGAGTGTGTGCACGT 1  
 RESULT 804  
 ADJ60829/c  
 ID ADJ60829 standard; DNA; 20 BP.  
 XX  
 AC ADJ60829;  
 XX  
 DT 06-MAY-2004 (first entry)  
 XX  
 DE Oligonucleotide associated to PDE4A #112.  
 XX interleukin; IL-4 receptor; IL-5 receptor; lung disease;  
 KW

KW airway inflammation; allergy; asthma; impeded respiration;  
 KW cystic fibrosis; acute respiratory distress syndrome;  
 KW pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;  
 KW ss.  
 OS Homo sapiens.  
 XX  
 XX WO2004011613-A2.  
 XX  
 XX 05-FEB-2004.  
 XX  
 XX 25-JUL-2003; 2003WO-US023509.  
 XX  
 XX 29-JUL-2002; 2002US-0399076P.  
 XX  
 XX (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 XX Nyce JW, Tang L, Sandrasagra A, Aguilar D, Miller S;  
 PI Shahabuddin S, Lu H, Cong H;  
 XX  
 XX WPI; 2004-203534/19.  
 XX  
 XX Novel single or multiple target oligonucleotide anti-sense to e.g.,  
 PT initiation codons and introns of respiratory disease-relevant genes e.g.,  
 PT CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory  
 PT disease e.g., asthma.  
 XX  
 XX Claim 2; SEQ ID NO 1685; 85pp; English.  
 XX  
 CC The present invention relates to an oligonucleotide anti-sense to e.g.,  
 CC initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-  
 CC end of nucleic acid target comprising gene(s) chosen from e.g.,  
 CC interleukin (IL)-4 receptor, IL-5 receptor or salts of the  
 CC oligonucleotide and optionally surfactant operatively linked to the  
 CC oligonucleotide. The method is useful for preventing or treating a  
 CC respiratory or lung disease, which involves administering to the airways  
 CC of a subject an effective amount of an inhibitor. The oligonucleotide is  
 CC useful for production of a medicament for the prevention and/or treatment  
 CC of a respiratory or lung disease. The respiratory or lung disease is  
 CC chosen from airway inflammation, allergy(ies), asthma, impeded  
 CC respiration, cystic fibrosis (CF), chronic obstructive pulmonary diseases  
 CC (COPD), allergic rhinitis (AR), acute respiratory distress syndrome  
 CC (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway  
 CC obstruction. The present sequence represents an oligonucleotide of the  
 CC invention.  
 XX  
 SQ Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1886 TCACGCTGCTGAGGAGGC 1905  
 DB 20 TCAAGCTGCTGCAGGAGGAC 1  
 RESULT 805  
 ADM15201/C  
 ID ADM15201 standard; DNA; 20 BP.  
 XX  
 XX ADM15201;  
 XX  
 XX 01-JUL-2004 (first entry)  
 XX  
 DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1388.  
 XX  
 KW chimeric; antisense oligonucleotide; phosphorothioate; human;  
 KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;  
 KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;  
 KW immunomodulator; cardiant; neuroprotective; antiinflammatory;  
 KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;  
 KW immunomodulatory; cardiovascular; gene therapy; inflammation;

KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
 KW reperfusion injury; ophthalmic disorder; immunological disorder;  
 KW cardiovascular disorder; neurological disorder; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 XX Key Location/Qualifiers  
 FH modified\_base 1..20  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "phosphorothioate linkages and all cytidine  
 FT residues are 5-methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"  
 XX  
 XX WO2004028458-A2.  
 XX  
 XX 08-APR-2004.  
 PD  
 XX 25-SEP-2003; 2003WO-US030374.  
 PF  
 XX 25-SEP-2002; 2002US-0413549P.  
 PR  
 XX (PHAA ) PHARMACIA CORP.  
 XX  
 XX Gierse JK;  
 XX  
 XX WPI; 2004-305094/28.  
 XX  
 XX New antisense compound, having a sequence targeted to a nucleic acid  
 PT encoding mPGES-1, useful for preparing a composition for treating e.g.,  
 PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or  
 PT ischemia.  
 PT  
 XX Claim 4; SEQ ID NO 1388; 132pp; English.  
 PS  
 CC The present sequence represents a chimeric antisense oligonucleotide  
 CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The  
 CC human mPGES-1 gene is located on chromosome 9, more specifically to  
 CC 9q34.3. The present invention also describes: (1) antisense compounds,  
 CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding  
 CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and  
 CC inhibits its expression; (2) a method of inhibiting the expression of  
 CC mPGES-1 in cells or tissues; and (3) a method of treating an animal  
 CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric  
 CC antisense oligonucleotides and antisense compounds have cytostatic,  
 CC antidiabetic, immunomodulator, cardiant, neuroprotective,  
 CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,  
 CC ophthalmological, immunomodulatory and cardiovascular activities, and can  
 CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound  
 CC can be used for preparing a composition for treating a disease or  
 CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's  
 CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or  
 CC ophthalmic, immunological, cardiovascular or neurological disorder.  
 XX  
 SQ Sequence 20 BP; 8 A; 9 C; 3 G; 0 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2323 GGTGTGTGTGTGTGTGTGTGT 2342  
 DB 20 GGTGTGTGTGTGTGTGTGTGT 1

RESULT 806  
ADM15209/c  
ID ADM15209 standard; DNA; 20 BP.  
XX  
XX  
AC ADM15209;  
XX  
XX 01-JUL-2004 (first entry)  
XX  
XX Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1396.  
DE  
DE  
XX chimeric; antisense oligonucleotide; phosphorothioate; human;  
KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;  
KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;  
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;  
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;  
KW immunomodulatory; cardiovascular; gene therapy; inflammation;  
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
KW reperfusion injury; ophthalmic disorder; immunological disorder;  
KW cardiovascular disorder; neurological disorder; ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
FT /tag= b  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate linkages and all cytidine  
FT residues are 5-methylcytidines"  
FT modified\_base 1..5  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls"  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls"  
XX  
XX WO2004028458-A2.  
XX  
XX 08-APR-2004.  
XX  
XX 25-SEP-2003; 2003WO-US030374.  
XX PF  
XX 25-SEP-2002; 2002US-0413549P.  
XX PR  
XX (PHAA ) PHARMACIA CORP.  
XX PA  
XX Gierse JK;  
XX PI  
XX WPI; 2004-305094/28.  
XX DR  
XX New antisense compound, having a sequence targeted to a nucleic acid  
XX encoding mPGES-1, useful for preparing a composition for treating e.g.,  
XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or  
XX ischemia.  
XX  
XX Claim 4; SEQ ID NO 1396; 132pp; English.  
XX  
XX The present sequence represents a chimeric antisense oligonucleotide  
XX targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The  
XX human mPGES-1 gene is located on chromosome 9, more specifically to  
XX CC34.3. The present invention also describes: (1) antisense compounds,  
XX having a sequence comprising 8-30 bp targeted to a nucleic acid encoding  
XX mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and  
XX inhibits its expression; (2) a method of inhibiting the expression of  
XX mPGES-1 in cells or tissues; and (3) a method of treating an animal  
XX having a disease or condition associated with mPGES-1. mPGES-1 chimeric  
XX antisense oligonucleotides and antisense compounds have cytosolic,  
XX antiinflammatory, neuroprotective, cardiant, neuroprotective,  
XX antidiabetic, immunomodulatory, antiarthritic, vasotropic,  
XX ophthalmological, immunomodulatory and cardiovascular activities, and can  
XX be used as mPGES-1 inhibitors and in gene therapy. The antisense compound

CC can be used for preparing a composition for treating a disease or  
CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's  
CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or  
CC ophthalmic, immunological, cardiovascular or neurological disorder.  
XX  
SQ Sequence 20 BP; 8 A; 9 C; 3 G; 0 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2322 TGTGTGTGTGTCGCGTGTG 2341  
Db 20 TGTGTGTGTGTCGCGTGTG 1  
RESULT 807  
ADM14960/c  
ID ADM14960 standard; DNA; 20 BP.  
XX  
XX ADM14960;  
XX  
XX 01-JUL-2004 (first entry)  
XX  
XX Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1147.  
DE  
DE  
XX chimeric; antisense oligonucleotide; phosphorothioate; human;  
KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;  
KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;  
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;  
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;  
KW immunomodulatory; cardiovascular; gene therapy; inflammation;  
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
KW reperfusion injury; ophthalmic disorder; immunological disorder;  
KW cardiovascular disorder; neurological disorder; ss.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
FT /tag= b  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate linkages and all cytidine  
FT residues are 5-methylcytidines"  
FT modified\_base 1..5  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls"  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls"  
XX  
XX WO2004028458-A2.  
XX  
XX 08-APR-2004.  
XX  
XX 25-SEP-2003; 2003WO-US030374.  
XX PF  
XX 25-SEP-2002; 2002US-0413549P.  
XX PR  
XX (PHAA ) PHARMACIA CORP.  
XX PA  
XX Gierse JK;  
XX PI  
XX WPI; 2004-305094/28.  
XX DR  
XX New antisense compound, having a sequence targeted to a nucleic acid  
XX encoding mPGES-1, useful for preparing a composition for treating e.g.,  
XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or  
XX ischemia.  
XX



XX 25-JUL-2003; 2003US-00627930.  
 XX 23-APR-2002; 2002WO-US0113135.  
 PR 23-APR-2002; 2002WO-US0113143.  
 XX (NYCE/) NYCE J W.  
 PA (SAND/) SANDRASAGRA A.  
 PA (TANG/) TANG L.  
 PA (AGUI/) AGUILAR D.  
 PA (MILL/) MILLER S.  
 PA (SHAH/) SHAHABUDDIN S.  
 PA (LUHH/) LU H.  
 PA (CONG/) CONG H.  
 XX Nyce JW, Sandrasagra A, Tang L, Aguilar D, Miller S;  
 PI Shahabuddin S, Lu H, Cong H;  
 XX WPI; 2004-293804/27.  
 XX Novel single or multiple target oligonucleotide anti-sense to e.g.  
 PT initiation codon, intron of respiratory disease-relevant gene e.g. CCR1,  
 PT RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.  
 PT asthma.  
 XX Claim 2; SEQ ID NO 1685; 174pp; English.  
 PS The invention relates to oligonucleotides anti-sense to an initiation  
 CC codon, coding region, 5' or 3' intron-exon junction, intron or region  
 CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target  
 CC chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)  
 CC -5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM,  
 CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention  
 CC also relates to a method of screening a candidate compound that binds to  
 CC one or more nucleic acid target(s) or expressed product(s), for the  
 CC prevention and/or treatment of a respiratory or lung disease. The  
 CC oligonucleotides are useful for reducing or inhibiting expression of a  
 CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor,  
 CC CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a,  
 CC tryptase b, PDE4 A, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are  
 CC useful for preventing or treating a respiratory or lung disease. The  
 CC respiratory or lung disease is associated with hyper-responsiveness to  
 CC and/or increased levels of, adenosine and/or levels of adenosine A  
 CC receptor(s), and/or asthma and/or lung allergies associated with  
 CC inflammation or an inflammatory disease. The respiratory or lung disease  
 CC is chosen from airway inflammation, allergy, asthma, impeded respiration,  
 CC cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD),  
 CC allergic rhinitis, acute respiratory distress syndrome, pulmonary  
 CC hypertension, lung inflammation, bronchitis, airway obstruction or  
 CC bronchoconstriction. This sequence represents an oligonucleotide of the  
 CC invention.  
 XX Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e+03; Mismatches 0; Gaps 0;  
 Matches 18; Conservative 0; Indels 2; Indels 0; Gaps 0;  
 QY 1886 TCAGCTGCTGAGGAGGC 1905  
 DB 20 TCAAGCTGCTGAGGAGGC 1  
 RESULT 810  
 ADP44427  
 ID ADP44427 standard; DNA; 20 BP.  
 XX AC  
 XX ADP44427;  
 DT 09-SEP-2004 (first entry)  
 XX DE Human ABCC5 DNA antisense oligonucleotide #43.  
 XX

KW Human; ABCC5; ss; antisense oligonucleotide; phosphorothioate linkage;  
 KW 2'-O-methoxyethyl sugar moiety; 5-methylcytosine;  
 KW hyperproliferative disorder; cancer; cytostatic.  
 XX Homo sapiens.  
 OS US2004115649-A1.  
 PN 17-JUN-2004.  
 XX 12-DEC-2002; 2002US-00319893.  
 PF 12-DEC-2002; 2002US-00319893.  
 PR 12-DEC-2002; 2002US-00319893.  
 XX (ISIS-) ISIS PHARM INC.  
 PA Dobie KW;  
 PI WPI; 2004-449386/42.  
 XX New oligonucleotide compound that inhibits expression of ABCC5, useful  
 PT for preparing a composition for treating hyperproliferative disorder,  
 PT e.g., cancer.  
 XX Example 15; SEQ ID NO 53; 57pp; English.  
 PS The invention relates to a compound targeted to a nucleic acid molecule  
 CC encoding the human ABCC5 polypeptide. The compound is an antisense  
 CC oligonucleotide that specifically hybridizes with the nucleic acid and  
 CC inhibits expression of the polypeptide. The antisense oligonucleotide  
 CC comprises at least one modified internucleoside linkage i.e. a  
 CC phosphorothioate linkage, at least one modified sugar moiety, preferably  
 CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase  
 CC comprising a 5-methylcytosine. The antisense compounds are useful for  
 CC modulating the expression of the human ABCC5 polypeptide and in  
 CC preparation of a composition for treating hyperproliferative disorders,  
 CC e.g. cancer. This sequence represents an antisense oligonucleotide  
 CC targeted to DNA encoding the human ABCC5 polypeptide of the invention.  
 XX Sequence 20 BP; 3 A; 9 C; 1 G; 7 T; 0 U; 0 Other;  
 SQ Query Match 0.4%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1e+03; Mismatches 0; Gaps 0;  
 Matches 18; Conservative 0; Indels 2; Indels 0; Gaps 0;  
 QY 2691 TTTCACACTCCACCTGC 2710  
 DB 1 TTTCACACTCCACCTGC 20  
 RESULT 811  
 ADP44502/c  
 ID ADP44502 standard; DNA; 20 BP.  
 XX AC  
 XX ADP44502;  
 DT 09-SEP-2004 (first entry)  
 XX DE Human ABCC5 DNA antisense oligonucleotide target region #40.  
 XX Human; ABCC5; ss; antisense oligonucleotide; phosphorothioate linkage;  
 KW 2'-O-methoxyethyl sugar moiety; 5-methylcytosine;  
 KW hyperproliferative disorder; cancer; cytostatic.  
 XX Homo sapiens.  
 OS US2004115649-A1.  
 PN 17-JUN-2004.  
 XX 12-DEC-2002; 2002US-00319893.  
 PF 12-DEC-2002; 2002US-00319893.  
 XX 12-DEC-2002; 2002US-00319893.

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XX (ISTS-) ISIS PHARM INC.
XX PA
XX PI
XX PI Dobie KW;
XX PI WPI; 2004-449386/42.
XX DR
XX PT New oligonucleotide compound that inhibits expression of ABC5, useful
XX PT for preparing a composition for treating hyperproliferative disorder,
XX PT e.g., cancer.
XX PS
XX PS Example 15; SEQ ID NO 128; 57pp; English.
XX PS
XX CC The invention relates to a compound targeted to a nucleic acid molecule
XX CC encoding the human ABC5 polypeptide. The compound is an antisense
XX CC oligonucleotide that specifically hybridises with the nucleic acid and
XX CC inhibits expression of the polypeptide. The antisense oligonucleotide
XX CC comprises at least one modified internucleoside linkage i.e. a
XX CC phosphorothioate linkage, at least one modified sugar moiety, preferably
XX CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase
XX CC comprising a 5-methylcytosine. The antisense compounds are useful for
XX CC modulating the expression of the human ABC5 polypeptide and in
XX CC preparation of a composition for treating hyperproliferative disorders,
XX CC e.g. cancer. This sequence represents a human ABC5 DNA antisense
XX CC oligonucleotide target region of the invention.
XX SQ
XX Sequence 20 BP; 7 A; 1 C; 9 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.4%; Score 16.8; DB 1; Length 20;
XX Best Local Similarity 90.0%; Pred. No. 1e+03;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 2691 TTTCCCACTTCCCACTGC 2710
DB 20 TTTCCCACTTCCCACTGC 1
XX
RESULT 812
ABS98543
ID ABS98543 standard; DNA; 21 BP.
XX
XX ABS98543;
XX
XX 23-DEC-2002 (first entry)
XX
XX Human acetyl choline muscarinic receptor 3 polymorphic sequence #9.
XX
XX Human; db; cytochrome P450 A1; CYP450A1; UGT2B4; MDR1;
XX cytochrome P450 A2; CYP450A2; cytochrome P450 02E; CYP45002E1; LTP;
XX adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;
XX aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
XX cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
XX epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
XX glutathione-S-transferase 12; GST12; histamine-N-methyl transferase;
XX HNMT; kallikrein 2; KLU2; nicotinamide-N-methyl transferase; NNMT;
XX NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;
XX UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
XX UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; UPA;
XX multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
XX multidrug resistance associated protein 3; cancer; prostate;
XX acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;
XX altered drug metabolism; cardiovascular function; colorectal tumour;
XX central nervous system; pulmonary; immunological; SNP;
XX single nucleotide polymorphism.
XX
XX Homo sapiens.
XX OS
XX WO200257410-A2.
XX PN
XX XX
XX 25-JUL-2002.
XX PD
XX 28-NOV-2001; 2001WO-US044838.
XX PF
XX DE

```

```

PR 28-NOV-2000; 2000US-00724389.
XX (DNAS-) DNA SCI LAB INC.
XX PA
XX PI Guida M, Hall J;
XX PI WPI; 2002-698522/75.
XX DR
XX PT Isolated nucleic acid molecules having polymorphisms in known human genes
XX PT e.g. cytochrome P450 and cathepsin S useful as genetic linkage markers
XX PT for locating, identifying and characterizing the genes responsible for
XX PT disorder-related traits.
XX PS
XX PS Example 28; Page 159; 714pp; English.
XX PS
XX CC This invention relates to the sequence of an isolated nucleic acid
XX CC molecule comprising at least one base variation from that of a known
XX CC human cytochrome P450 A1 (CYP450A1), cytochrome P450 A2 (CYP450A2),
XX CC cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1),
XX CC aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
XX CC (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
XX CC inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating
XX CC protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl
XX CC transferase (HNMT), kallikrein 2 (KLU2), nicotinamide-N-methyl
XX CC transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),
XX CC sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
XX CC (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
XX CC transferase (UGT2B15), urokinase receptor (UPA), multidrug resistance 1
XX CC (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
XX CC (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic
XX CC receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
XX CC The polymorphisms in the human genes cited in the invention are useful as
XX CC genetic linkage markers for locating and characterising the genes that
XX CC are responsible for specific traits within the genome and eventually
XX CC identifying the genes responsible for a variety of disorder-related
XX CC traits as a result of their e.g., overexpression, constitutive
XX CC expression, mutation or underexpression, which may be used in diagnosing
XX CC and/or treating the disorders. The nucleic acid molecules comprising the
XX CC polymorphic sequences contained in CYP450A1, CYP450A2, CYP4502E1,
XX CC ARNT, EPHX2, GST12, NNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
XX CC MDR1 and/or MDR3 are useful for screening individuals for altered drug
XX CC metabolism. The polymorphic sequences contained in CYP450A1, CYP450A2,
XX CC AHR, MDR1 and/or MDR3 may also be used to screen individuals for
XX CC susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are
XX CC used to screen for altered cardiovascular function, in COX2 for altered
XX CC susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
XX CC nervous system function, in FLAP and HNMT for altered pulmonary,
XX CC immunological or haematological function, in KLU2 for altered serine
XX CC protease activity in the prostate, in LTF for altered immunological or
XX CC haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
XX CC peripheral nervous system function. The present sequence represents a
XX CC polymorphic DNA sequence of the invention
XX SQ
XX Sequence 21 BP; 9 A; 0 C; 2 G; 10 T; 0 U; 0 Other;
XX
XX Query Match 0.4%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred. No. 1.1e+03;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 3463 TATATATCTATATATATA 3482
DB 2 TATATATGTATATATATA 21
XX
RESULT 813
AAQ20038/c
XX ID AAQ20038 standard; DNA; 21 BP.
XX AC
XX AC AAQ20038;
XX XX
XX 01-APR-1992 (first entry)
XX DT
XX Cross-linking oligomer 220 for targeting human TNF.
XX DE

```



XX deoxyribonucleic acid; major groove; ethanoino group;  
KW aziridinylcytosine; cross-linking group; tumour necrosis factor; ss.  
XX Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT modified\_base 2  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT modified\_base 3  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT modified\_base 4  
FT /\*tag= d  
FT /mod\_base= OTHER  
FT modified\_base 7  
FT /\*tag= e  
FT /mod\_base= OTHER  
FT modified\_base 9  
FT /\*tag= f  
FT /mod\_base= OTHER  
FT modified\_base 11  
FT /\*tag= g  
FT /mod\_base= OTHER  
FT modified\_base 13  
FT /\*tag= h  
FT /mod\_base= OTHER  
FT modified\_base 15  
FT /\*tag= i  
FT /mod\_base= OTHER  
FT modified\_base 17  
FT /\*tag= j  
FT /mod\_base= OTHER  
FT modified\_base 21  
FT /\*tag= k  
FT /mod\_base= OTHER  
FT modified\_base 21  
FT /\*tag= k  
FT /mod\_base= OTHER  
XX WO9118997-A.  
FN  
XX  
PD 12-DEC-1991.  
XX  
XX 25-MAY-1990; 90US-00529346.  
XX  
PR 25-MAY-1990; 90US-00529346.  
PR 14-JAN-1991; 91US-00640654.  
XX  
XX (GILE-) GILEAD SCIE INC.  
XX  
XX Matteucci MD, Krawczyk S;  
XX  
XX WPI; 1992-007480/01.  
DR  
XX  
XX New sequence-specific non-photo-activated crosslinking agents - bind to  
PT the major groove of duplex DNA and are esp. useful for treating latent  
PT infections e.g. HIV.  
XX  
XX Example 4; Page 25; 42pp; English.

CC The sequence is designed to target the Human tumour necrosis factor  
CC beginning at nucleotide 1137 and to covalently cross-link to it via the  
CC N4N4-ethanocytosine group. See also AAQ20031-Q20037  
XX  
SQ Sequence 21 BP; 10 A; 1 C; 0 G; 10 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
OY 3467 TATATCTATATATATATTT 3486  
DB 21 TAAATATATATATATATTT 2  
RESULT 814  
AAQ30386/c  
ID AAQ30386 standard; DNA; 21 BP.  
XX  
AC AAQ30386;  
XX  
DT 25-MAR-2003 (revised)  
DT 07-DEC-1992 (first entry)  
XX  
DE Oligomer TNF217 for forming triplex with HUMTNFAA target duplex.  
XX  
KW Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV;  
KW malignancy; hepatitis; inflammation; ss.  
XX  
OS Synthetic.  
FH Key Location/Qualifiers  
FT modified\_base 1  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT modified\_base 2  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT modified\_base 3  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT modified\_base 4  
FT /\*tag= d  
FT /mod\_base= OTHER  
FT modified\_base 7  
FT /\*tag= e  
FT /mod\_base= OTHER  
FT modified\_base 9  
FT /\*tag= f  
FT /mod\_base= OTHER  
FT modified\_base 11  
FT /\*tag= g  
FT /mod\_base= OTHER  
FT modified\_base 13  
FT /\*tag= h  
FT /mod\_base= OTHER  
FT modified\_base 15  
FT /\*tag= i  
FT /mod\_base= OTHER  
FT modified\_base 17  
FT /\*tag= j  
FT /mod\_base= OTHER  
FT modified\_base 21  
FT /\*tag= j  
FT /mod\_base= OTHER



```

FT FT /*tag= k
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
XX PN
XX PD W09209705-A1.
XX PD 11-JUN-1992.
XX PF 25-NOV-1991; 91WO-US008811.
XX PR 23-NOV-1990; 90US-00617907.
XX PR 18-JAN-1991; 91US-00643382.
XX PR 08-APR-1991; 91US-00683420.
XX PR 17-APR-1991; 91US-00686544.
XX PR 17-APR-1991; 91US-00686546.
XX PR 17-APR-1991; 91US-00686547.
XX PR 27-SEP-1991; 91US-00766733.
XX PA (GILE-) GILEAD SCI INC.
XX PI Froehler B, Krawczyk S, Matteucci MD, Milligan J;
XX PI WPI; 1992-217083/26.
XX DR
XX XX New oligomers contg. modified bases - which form a triplex with G-C
XX FT doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis,
XX PT herpes malignancy and inflammation.
XX PS
XX PS Claim 12; Page 70; 77pp; English.
XX CC The synthetic oligomer is capable of forming a triplex at physiological
XX CC pH with a purine rich target sequence by coupling into the major groove
XX CC of the duplex. The specific target sequence of this oligomer is the human
XX CC tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich
XX CC sequence concd. on one strand of the duplex. The oligomer, and others
XX CC like it are useful in diagnosis and therapy of diseases characterised by
XX CC specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes,
XX CC malignant tumours and inflammation. The triple helices form under mild
XX CC conditions thus assays may be carried out without subjecting the test
XX CC specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448.
XX CC (Updated on 25-MAR-2003 to correct PN field.)
XX XX
XX SQ Sequence 21 BP; 11 A; 0 G; 10 T; 0 U; 0 Other;
XX Query Match 0.4%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred. No. 1.1e+03;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 3467 TATATCTATATATATAATTT 3486
Db 21 TAAATATATATATAATTT 2

RESULT 815
ID AAQ30389/C
AC AAQ30389 standard; DNA; 21 BP.
XX AC
XX AC AAQ30389;
XX AC
XX AC
XX AC
XX AC AAQ30389 (revised)
XX DT 07-DEC-1992 (first entry)
XX DT
XX DE Oligomer TNP220 for forming triplex with HUMTNFAA target duplex.
XX XX
XX XX Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV;
XX KW malignancy; hepatitis; inflammation; ss.
XX OS
XX OS Synthetic.
XX XX
XX FH Key Location/Qualifiers
XX FT modified_base 1
XX FT /*tag= a
XX FT /mod_base= OTHER

```

```

FT modified_base
FT FT /note= "OTHER= N4 N4 ethanocytosine"
FT FT /*tag= b
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= c
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= d
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= e
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= f
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= g
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= h
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= i
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= j
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
FT modified_base
FT FT /*tag= k
FT FT /mod_base= OTHER
FT FT /note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
XX XX
XX PN W09209705-A1.
XX XX
XX PD 11-JUN-1992.
XX XX
XX PF 25-NOV-1991; 91WO-US008811.
XX XX
XX PR 23-NOV-1990; 90US-00617907.
XX PR 18-JAN-1991; 91US-00643382.
XX PR 08-APR-1991; 91US-00683420.
XX PR 17-APR-1991; 91US-00686544.
XX PR 17-APR-1991; 91US-00686546.
XX PR 17-APR-1991; 91US-00686547.
XX PR 27-SEP-1991; 91US-00766733.
XX XX
XX PA (GILE-) GILEAD SCI INC.
XX XX
XX PI Froehler B, Krawczyk S, Matteucci MD, Milligan J;
XX XX WPI; 1992-217083/26.
XX DR
XX XX New oligomers contg. modified bases - which form a triplex with G-C
XX FT doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis,
XX PT herpes malignancy and inflammation.
XX XX
XX PS Claim 12; Page 70; 77pp; English.
XX XX
XX CC The synthetic oligomer is capable of forming a triplex at physiological
XX CC pH with a purine rich target sequence by coupling into the major groove
XX CC of the duplex. The specific target sequence of this oligomer is the human
XX CC tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich
XX CC sequence concd. on one strand of the duplex. The oligomer, and others
XX CC like it are useful in diagnosis and therapy of diseases characterised by
XX CC specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes,
XX CC malignant tumours and inflammation. The triple helices form under mild
XX CC conditions thus assays may be carried out without subjecting the test
XX CC specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448.
XX CC (Updated on 25-MAR-2003 to correct PN field.)
XX XX

```

CC like it are useful in diagnosis and therapy of diseases characterised by  
 CC specific DNA duplex targets, e.g. HPV; HER; HIV; hepatitis B, herpes,  
 CC malignant tumours and inflammation. The triple helices form under mild  
 CC conditions thus assays may be carried out without subjecting the test  
 CC specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448.  
 CC (Updated on 25-MAR-2003 to correct PN field.)

XX  
 SQ Sequence 21 BP; 10 A; 1 C; 0 G; 10 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3467 TATATCTATATATATATTT 3486

DB 21 TAAATATATATATATTT 2

RESULT 816

AAQ33326  
 ID AAQ33326 standard; DNA; 21 BP.

XX  
 AC AAQ33326;

XX 25-MAR-2003 (revised)

DT 19-MAY-1993 (first entry)

XX  
 XX KHCVC DNA 3'-end region cloning PCR primer DA17PSHCV.

XX Korean hepatitis C virus; polymerase chain reaction; ss.

XX Synthetic.

OS  
 XX EP521318-A2.

PN 07-JAN-1993.

XX 10-JUN-1992; 92EP-00109753.

XX 10-JUN-1991; 91KR-00009510.

PR 06-AUG-1991; 91KR-00013601.

XX (LUCK-) LUCKY LTD.

XX Cho JM, Lee YB, Park YW, Lim KJ, Choi DY, So HS, Kim CH;

PI Kim ST, Yang JY;

XX WPI; 1993-001883/01.

DR DNA and polypeptide(s) from a new type of hepatitis C virus (KHCV) - for  
 PT diagnosing and vaccinating against KHCV infections.

XX Example; Page 20; 119pp; English.

XX The sequence is that of PCR primer DA17PSHCV used in the cloning of the  
 CC 3'-end region of the Korean hepatitis C virus genome. The DNA sequence  
 CC obtd. was KHCV 266 contg. two terminator codons but no poly(A) tail.  
 CC (Updated on 25-MAR-2003 to correct PN field.)

XX Sequence 21 BP; 4 A; 3 C; 9 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2006 TGGTGGAGGACCTGGACCGT 2025

DB 1 TGGTGGTGGAGGACCTGGACCGT 20

RESULT 817

AAQ71073/c

ID AAQ71073 standard; DNA; 21 BP.

XX

AC AAQ71073;

XX 25-MAR-2003 (revised)

DT 19-APR-1995 (first entry)

XX

DE Primer #1 for preparation of merlin cDNA, bases 824-2100.

XX

XX Polymerase chain reaction; PCR; amplify; primer; bi-lateral schwannoma;  
 KW sequence-tagged site assay; chromosome 22; NF2; deletion; hearing loss;  
 KW neurofibromatosis; merlin; moesin-erzin-radinin-like protein; D2S28;  
 KW tumour suppressor; activity; meningioma; cytoskeleton; gene therapy;  
 KW merlin-associated tumour; D2S1; posterior capsular lens opacity;  
 KW deafness; balance disorder; paralysis; ss.

XX Synthetic.

OS

XX EP613945-A2.

PN 07-SEP-1994.

XX 25-FEB-1994; 94EP-00301367.

XX 25-FEB-1993; 93US-00022034.

PR 04-MAR-1993; 93US-00026063.

PR 19-AUG-1993; 93US-00108808.

PR 22-DEC-1993; 93US-00171718.

XX (GEO) GEN HOSPITAL CORP.

XX Trofatter JA, Maccollin MM, Gusella JF;

PI WPI; 1994-272992/34.

XX The tumour suppressor gene merlin - for treatment and diagnosis of  
 PT tumours and neurofibromatosis (NF2).

XX Disclosure; Page 14; 86pp; English.

XX The sequences given in AAQ71073-76 are primers which were used to amplify  
 CC regions of the merlin gene. NF2 is a neurofibromatosis which is  
 CC characterised by bi-lateral schwannomas. The NF2 "gene" has been shown by  
 CC linkage studies to be assigned to chromosome 22. The missing or mutated  
 CC gene in NF2 patients has been shown to be the merlin gene. The gene  
 CC encodes a protein, merlin (moesin-erzin-radinin-like protein), which  
 CC possesses tumour suppressor activity, and whose tumour suppressor  
 CC activity is mediated by interactions with the cytoskeleton. The merlin  
 CC gene is found on chromosome 22 between the known markers D2S1 and  
 CC D2S28. The merlin gene may be used in gene therapy for the treatment of  
 CC a merlin-associated tumour or NF2, or for prevention of schwannoma,  
 CC meningioma, posterior capsular lens opacities, deafness or hearing loss,  
 CC balance disorders or paralysis. (Updated on 25-MAR-2003 to correct PN  
 CC field.)

XX Sequence 21 BP; 4 A; 8 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1614 CATCCACAGGACCTGGCTG 1633

DB 21 CATCCATAGGAGCTGGCTG 2

RESULT 818

AAQ61901

ID AAQ61901 standard; DNA; 21 BP.

XX

AC AAQ61901;

XX 25-MAR-2003 (revised)

DT 04-NOV-1994 (first entry)

XX DE HSV replication inhibiting oligomer, ISIS no 4560.

XX KW Inhibition; replication; herpes simplex virus; HSV; HIV;

XX KW human cytomegalovirus; influenza virus; inflammation;

XX KW neurological disorders; phospholipase A2 activity; hyperproliferation;

XX KW malignancy; cardiovascular disease; snake bite; malignancy;

XX KW telomere length; retard; aging; ss.

OS Synthetic.

XX Key Location/Qualifiers

FT misc\_feature 1..21

FT /tag= a

FT /notes="Phosphorothionate intersugar linkages"

XX PN WO9408053-A1.

XX PD 14-APR-1994.

XX PF 29-SEP-1993; 93WO-US009297.

XX PR 29-SEP-1992; 92US-00954185.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Hanecak RC, Anderson KP, Bennett CF, Chiang M, Brown-Driver VL;

XX PI Ecker DJ, Vickers TA, Wyatt JR, Imbach JL;

XX DR WPI; 1994-135613/16.

XX PT New modified oligo-nucleotide contg guanine quartet - inhibits activity

XX PT of viruses, e.g. HIV, and phospholipase A2 and modulates telomere length

XX PS Claim 5; Page 19; 144pp; English.

XX CC The sequences given in AAQ61825-50 and AAQ61886-906 are oligonucleotides

XX CC which contain a G4 or two G3 stretches and which may be used for

XX CC inhibiting replication of herpes simplex virus (HSV). Oligonucleotides

XX CC such as these may also be used for inhibiting activity of HIV, human

XX CC cytomegalovirus or influenza virus, or for treating inflammatory and

XX CC neurological disorders caused by phospholipase A2 activity in cases of

XX CC hyperproliferation, malignancy, cardiovascular disease and snake bite.

XX CC They may also be used for inhibiting division of malignant cells by

XX CC modulating telomere length, which may also retard aging. (Updated on 25-

XX CC MAR-2003 to correct PN field.)

XX SQ Sequence 21 BP; 0 A; 4 C; 17 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2920 GGGCGGGCGCTGGGGGGCG 2939

Db 2 GGGCGGGCGGGCGGGCGG 21

RESULT 819

AAQ97967

ID AAQ97967 standard; DNA; 21 BP.

XX AC AAQ97967;

XX DT 25-MAR-2003 (revised)

XX DT 19-OCT-1995 (first entry)

XX DE Peptide nucleic acid oligomer targeting HIV gene.

XX KW Peptide nucleic acid; PNA; HIV; human immunodeficiency virus; AIDS;

XX KW antiviral; antisense; triple helix; ss.

OS Synthetic.

XX Key Location/Qualifiers

FT misc\_feature 1..21

FT /tag= a

FT /note="at least one (and preferably all) of the backbone

FT subunits are composed of N-acetyl N-(2-aminoethyl)glycine

FT peptide residues, the nucleobase being attached

FT covalently to the acetyl group and the peptide linkage

FT being formed by condensation of the glycine carboxy group

FT of one residue with the amino group of the 2-aminoethyl

FT moiety in the next residue"

XX PN WO9504068-A1.

XX PD 09-FEB-1995.

XX PF 28-JUL-1994; 94WO-US008517.

XX PR 29-JUL-1993; 93US-00099718.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Ecker DJ;

XX DR WPI; 1995-082179/11.

XX PT Oligomer hybridisable to HIV sequence and contg. peptide nucleic acid

XX PT subunit - binds in complementary manner to DNA and RNA, and useful for

XX PT modulating HIV viral activity, e.g. in treating AIDS.

XX PS Claim 2; Page 176; 186pp; English.

XX CC New peptide nucleic acid (PNA) oligomers are provided which (a) consist

XX CC of naturally occurring nucleobases covalently bound to a polyamide

XX CC backbone and (b) hybridise to the translation initiation AUG region, 5'

XX CC untranslated region (5' UTR), 3' untranslated region (3' UTR), splice

XX CC junctions or coding sequence of a human immunodeficiency virus gene

XX CC chosen from env, gag, pol, rev and tat. The PNAs can be used to target

XX CC RNA and single stranded DNA (ssDNA) to produce antisense-type gene

XX CC regulation moieties. They have utility as gene-targeted drugs for

XX CC modulating HIV processes. Hence they can be used to treat AIDS and other

XX CC viral infections. They are also useful in diagnostic applications and as

XX CC research tools. PNA oligomers have high affinity for complementary single

XX CC stranded DNA. They are also able to form triple helices in which a first

XX CC PNA strand binds with RNA or ssDNA and a second PNA strand binds with the

XX CC resulting double helix or with the first PNA strand. The PNAs possess no

XX CC significant charge and are water soluble, which facilitates cellular

XX CC uptake. Further, since they contain amides of non-biological amino acids,

XX CC they are biostable and resistant to enzymatic degradation by proteases.

XX CC The present sequence is a specifically claimed PNA sequence (represented

XX CC by the sequence of nucleobases) targeting HIV genes. (Updated on 25-MAR-

XX CC 2003 to correct PN field.)

XX SQ Sequence 21 BP; 0 A; 4 C; 17 G; 0 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2920 GGGCGGGCGCTGGGGGGCG 2939

Db 2 GGGCGGGCGGGCGGGCGG 21

RESULT 820

AAZ26593

ID AAZ26593 standard; DNA; 21 BP.

XX AC AAZ26593;

XX DT 30-NOV-1999 (first entry)

XX DT XX

DE Human polymorphic region 782.

XX Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH;

XX cell viability; loss of heterozygosity; precancerous condition; ASI;

XX allele specific inhibitor; somatic cell; diagnosis; prevention;

XX atherosclerotic plaque; premalignant metaplastic lesion; endometriosis;

XX dysplastic lesion; benign tumour; polycystic kidney disease; transplant;

XX graft versus host disease; malignant cell removal; bone marrow; ss.

XX Homo sapiens.

XX WO9841648-A2.

PN 24-SEP-1998.

XX 19-MAR-1998; 98WO-US005419.

XX 20-MAR-1997; 97US-0041057P.

XX (VARI-) VARIAGENICS INC.

XX Housman D, Ledley FD, Stanton VP;

XX WPI; 1998-521232/44.

XX Identifying target genes for allele-specific drugs - used for diagnosis,

XX prevention and treatment of, e.g. cancers, atherosclerotic plaque,

XX dysplastic lesions, endometriosis or graft versus host disease.

XX Disclosure; Fig 7; 605pp; English.

XX This invention describes a novel method for identifying an inhibitor

XX potentially useful for treatment of cancer, where the inhibitor is active

XX on a gene vital for cell growth or viability, and where the gene is

XX subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is

XX used for preventing the development of cancer in a patient having a

XX precancerous condition, by administering to the patient a first allele

XX specific inhibitor (ASI) targeted to an allele of a first essential gene

XX present in cells of the precancerous condition, where the normal somatic

XX cells of the patient are heterozygous for the first gene, the inhibitor

XX is active on at least one but less than all allelic forms of the gene

XX present in a population and targets only one allelic form present in the

XX normal somatic cells, and the first gene. The products and methods can be

XX used in the diagnosis, prevention and treatment of LOH disorders, e.g.

XX cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic

XX lesions, benign tumours, endometriosis, polycystic kidney disease, and

XX graft versus host disease. The method can also be used to remove

XX malignant cells from bone marrow transplants. AA225812-Z26825 represent

XX human polymorphic sites described in the method of the invention

XX Sequence 21 BP; 3 A; 8 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1517 CCTGCAAGCGCCCGAGGAG 1536

DB 2 CCTGCAAGCGCTCCGAGGAG 21

RESULT 821

AA218215/c

ID AA218215 standard; DNA; 21 BP.

XX AA218215;

AC AA218215;

DT 11-OCT-1999 (first entry)

XX Tyrosine kinase gene specific primer 408.

XX Genetic proximity; gene expression; cell characterisation; homeobox gene;

XX genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;

XX

KW kinase gene; protein phosphatase; P450; steroid receptor; cadherin;

KW primer; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9934016-A2.

PN 08-JUL-1999.

XX 28-DEC-1998; 98WO-IL000625.

XX 29-DEC-1997; 97IL-00122793.

PR 16-OCT-1998; 98IL-00126627.

XX (GENE-) GENENA LTD.

XX Vidar B;

PI WPI; 1999-419113/35.

DR P-PSDB; AAV14749.

XX Identifying and characterizing cells by comparing the pattern of gene

XX expression in a selected gene family.

XX Claim 4; Page 48; 102pp; English.

XX The invention provides a new method for identifying and characterising

XX cells. The method for determining the genetic proximity of a first cell

XX and a second cell comprises: (a) obtaining the first cell and the second

XX cell; (b) determining in the first cell and the second cell the pattern

XX of expression of genes in a selected gene family; and (c) calculating a

XX proximity index using a specified formula. The methods can be used for

XX characterising cells, e.g. for determining the origin of a cell, its

XX genetic status, whether it carries a genetic defect, or whether it is

XX transformed. They can be used for detecting a selected genetic defect in

XX an individual, e.g. a fetus. They can also be used for determining the

XX effect of a selected treatment on a test cell. They can also be used for

XX obtaining cells capable of expressing an homeobox related desired

XX property. The method uses reverse transcriptase polymerase chain reaction

XX (RT-PCR) for determining the pattern of gene expression in a selected

XX gene family. Sequences AA217803-Z18342 represent primers that can be used

XX in the RT-PCR reactions to determine the pattern of gene expression. The

XX gene family can be selected from a set of homeobox genes, kinase genes,

XX protein phosphatase genes, P450 enzyme genes, steroid receptor

XX superfamily genes or cadherin superfamily genes

XX Sequence 21 BP; 6 A; 9 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.1e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1798 AGTGACGCTGCTGCTTTCG 1817

DB 21 AGTGACGCTGCTGCTTTCG 2

RESULT 822

ABX09456/c

ID ABX09456 standard; DNA; 21 BP.

XX ABX09456;

AC ABX09456;

XX 22-JAN-2003 (first entry)

XX Arteriosclerosis-detecting probe from HNF1 #2.

XX Arteriosclerosis; diagnosis; hybridisation; synergism; gene therapy;

XX mutation; probe; ss.

XX Homo sapiens.

XX



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PR WO2004035732-A2.
XX PD 29-APR-2004.
XX PF 28-AUG-2003; 2003WO-US026780.
XX PF 29-AUG-2002; 2002US-0406576P.
XX PF 29-AUG-2002; 2002US-0406579P.
XX PF 29-AUG-2002; 2002US-0406585P.
XX PF 29-AUG-2002; 2002US-0406588P.
XX PF 29-AUG-2002; 2002US-0406608P.
XX PF 29-AUG-2002; 2002US-0406611P.
XX PF 29-AUG-2002; 2002US-0406612P.
XX PF 29-AUG-2002; 2002US-0406616P.
XX PF 29-AUG-2002; 2002US-0406640P.
XX PF 29-AUG-2002; 2002US-0406642P.
XX PF 29-AUG-2002; 2002US-0406646P.
XX PF 29-AUG-2002; 2002US-0406653P.
XX PF 29-AUG-2002; 2002US-0406655P.
XX PF 29-AUG-2002; 2002US-0406666P.
XX PF 17-SEP-2002; 2002US-0410946P.
XX PF 17-SEP-2002; 2002US-0410947P.
XX PF 17-SEP-2002; 2002US-0410948P.
XX PF 17-SEP-2002; 2002US-0410949P.
XX PF 17-SEP-2002; 2002US-0410953P.
XX PF 17-SEP-2002; 2002US-0410957P.
XX PF 17-SEP-2002; 2002US-0410958P.
XX PF 17-SEP-2002; 2002US-0410959P.
XX PF 17-SEP-2002; 2002US-0410960P.
XX PF 17-SEP-2002; 2002US-0410961P.
XX PF 17-SEP-2002; 2002US-0410962P.
XX PF 17-SEP-2002; 2002US-0410963P.
XX PF 17-SEP-2002; 2002US-0411010P.
XX PF 17-SEP-2002; 2002US-0411022P.
XX PF 17-SEP-2002; 2002US-0411023P.
XX PF 17-SEP-2002; 2002US-0411024P.
XX PF 17-SEP-2002; 2002US-0411032P.
XX PF 17-SEP-2002; 2002US-0411035P.
XX PF 17-SEP-2002; 2002US-0411037P.
XX PF 17-SEP-2002; 2002US-0411041P.
XX PF 17-SEP-2002; 2002US-0411045P.
XX PF 17-SEP-2002; 2002US-0411046P.
XX PF 17-SEP-2002; 2002US-0411048P.
XX PF 17-SEP-2002; 2002US-0411052P.
XX PF 17-SEP-2002; 2002US-0411055P.
XX PF 17-SEP-2002; 2002US-0411073P.
XX PF 17-SEP-2002; 2002US-0411082P.
XX PF 17-SEP-2002; 2002US-0411101P.
XX PF 17-SEP-2002; 2002US-0411111P.
XX PF 18-APR-2003; 2003US-0463700P.
XX PF 18-APR-2003; 2003US-0463708P.
XX PF 18-APR-2003; 2003US-0463716P.
XX PF 18-APR-2003; 2003US-0463732P.
XX PF 02-MAY-2003; 2003US-0467199P.
XX PF 02-MAY-2003; 2003US-0467201P.
XX PF 02-MAY-2003; 2003US-0467203P.
XX PF 02-MAY-2003; 2003US-0467230P.
XX PF 19-MAY-2003; 2003US-0471306P.
XX PF 19-MAY-2003; 2003US-0471356P.
XX PF 22-MAY-2003; 2003US-0472420P.
XX PF 22-MAY-2003; 2003US-0472430P.
XX PF 09-JUN-2003; 2003US-0476609P.
XX PF 09-JUN-2003; 2003US-0476641P.
XX PF 08-JUL-2003; 2003US-0485218P.
XX PF 08-JUL-2003; 2003US-0485223P.
XX PF 08-JUL-2003; 2003US-0485224P.
XX PF 08-JUL-2003; 2003US-0485325P.
XX PF 14-JUL-2003; 2003US-0486446P.
XX PF 14-JUL-2003; 2003US-0486480P.
XX PF 15-JUL-2003; 2003US-0486891P.
XX PF 15-JUL-2003; 2003US-0486960P.
XX PF 08-AUG-2003; 2003US-0493341P.
XX PF 08-AUG-2003; 2003US-0493370P.
XX PF 08-AUG-2003; 2003US-0493573P.

PR 08-AUG-2003; 2003US-0493577P.
XX (FIVE-) FIVE PRIME THERAPEUTICS INC.
XX Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;
PI Halenbeck RF, Huang MM, Kothakota S, Haishan L, Linnemann T;
PI Pierce K, Wang Y, Wong JGP, Wu G, Zhang H;
XX WPI; 2004-348438/32.
XX New nucleic acid molecule for diagnosing, preventing or treating diseases
PT such as proliferative (e.g. cancer), inflammatory, immune, metabolic,
PT genetic, bacterial and viral diseases.
XX Claim 1; SEQ ID NO 1166; 428pp; English.
XX The present invention relates to an isolated nucleic acid molecule
CC encoding a polypeptide which is believed to be cytostatic,
CC antiinflammatory, immunosuppressive, antibacterial and virucidal. The
CC composition and methods are useful for diagnosing, preventing and
CC treating diseases such as proliferative (e.g. cancer), inflammatory,
CC immune, metabolic, genetic, bacterial and viral diseases. The present
CC sequence represents a human secreted protein encoding sequence. The
CC present sequence is available on WIPOWEB and is not in the specification.
XX Sequence 21 BP; 4 A; 1 C; 15 G; 1 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 853 GAGGAGGAGCTGCTGGAGGC 872
Db 2 GAGGAGGAGCTGCTGGAGGC 21
|||||
|
RESULT 825
ADH70559
ID ADH70559 standard; DNA; 22 BP.
XX ADH70559;
XX 25-MAR-2004 (first entry)
DE Human Vbeta gene repeat sequence #349.
XX human; T-cell associated disease; Vbeta; autoimmune disease;
KW degenerative nervous system disease; graft versus host disease;
KW hypersensitivity disease; infectious disease; neoplastic disease;
KW Addison's disease; atrophic gastritis;
KW degenerative nervous system disease; multiple sclerosis;
KW Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;
KW allergy; type II hypersensitivity; Goodpasture's syndrome;
KW type IV hypersensitivity; leprosy; infectious disease; viral infection;
KW HIV; fungal infection; Candida; parasitic infection; schistosoma;
KW filaria; bacterial infection; Mycobacterium; neoplastic disease;
KW lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
KW breast cancer; ds.
XX Homo sapiens.
XX US2002150891-A1.
XX 17-OCT-2002.
XX 05-MAR-1999; 99US-00263959.
XX 19-SEP-1994; 94US-00309335.
XX 19-SEP-1995; 95US-00531241.
XX (HOOD/) HOOD L E.
XX (ROWE/) ROWEN L.

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PI Hood LE, Rowen L;  
 XX WPI; 2004-059052/06.  
 XX  
 PT Kit for diagnosing and treating T-cell associated diseases e.g.  
 PT autoimmune, degenerative nervous system and infectious disease, comprises  
 PT nucleic acid primers specifically priming and allowing amplification of a  
 PT Vbeta gene.  
 XX  
 PS Disclosure; SEQ ID NO 753; 164pp; English.  
 XX  
 CC The invention relates to a kit for diagnosing and treating T-cell  
 CC associated diseases which comprises a panel of nucleic acid primers  
 CC specifically priming and allowing amplification of each Vbeta gene,  
 CC VbetARNA or cDNA. The kit is useful for diagnosing organ transplant  
 CC rejection and diagnosing and treating T-cell associated diseases  
 CC including autoimmune diseases, degenerative nervous system diseases,  
 CC graft versus host disease, hypersensitivity diseases, infectious diseases,  
 CC and neoplastic diseases. Autoimmune diseases include Addison's disease,  
 CC atrophic gastritis. Degenerative nervous system diseases include multiple  
 CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type  
 CC I hypersensitivities such as contact with allergens that lead to  
 CC allergies, Type II hypersensitivities such as those present in  
 CC Goodpasture's syndrome and Type IV hypersensitivities such as those  
 CC manifested in leprosy. Infectious diseases include viral infections  
 CC caused by viruses such as HIV, fungal infections such as those caused by  
 CC the yeast genus Candida, parasitic infections such as those caused by  
 CC schistosomes, filaria and bacterial infections such as those caused by  
 CC Mycobacterium. Neoplastic diseases include lymphoproliferative diseases  
 CC such as leukaemias, lymphomas and cancers such as cancer of the brain,  
 CC breast. The present sequence represents a Vbeta gene repeat sequence.  
 XX  
 SQ Sequence 22 BP; 9 A; 0 C; 2 G; 11 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 22;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3463 TATATATATCTATATATATA 3482  
 DB 2 TATATATATCTATATGTATA 21  
 RESULT 826  
 AAV30066/c  
 ID AAV30066 standard; DNA; 22 BP.  
 XX  
 AC AAV30066;  
 XX  
 DT 13-AUG-1998 (first entry)  
 XX  
 DE PCR primer used to amplify the IL-12 p40 subunit.  
 XX  
 KW IL-12 p40 subunit; treatment; intracellular infection; mammal;  
 KW immunogenic portion; antigen; intracellular pathogen;  
 KW bacterial infection; legionella; tuberculosis; chlamydia;  
 KW parasitic infection; rickettsia; leishmaniasis; malaria; viral infection;  
 KW Herpes; HIV; FIV; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9812332-A1.  
 XX  
 XX 26-MAR-1998.  
 XX  
 PF 16-SEP-1997; 97WO-US016453.  
 XX  
 PR 17-SEP-1996; 96US-0025267P.  
 XX  
 PA (CHIR ) CHIRON CORP.  
 PA (SCRI ) SCRIPPS RES INST.  
 XX

PI Sallberg M, Millich DR, Lee WTL;  
 XX WPI; 1998-217270/19.  
 XX  
 PT Vector construct directing expression of intracellular pathogenic antigen  
 PT - useful for, e.g. treatment of intracellular diseases in animals such as  
 PT tuberculosis and chlamydia.  
 XX  
 PS Example 2; Page 45; 141pp; English.  
 XX  
 CC PCR primers AAV30066-67 were used to amplify the IL-12 p40 sununit from  
 CC normal uninfected human peripheral blood mononucleocytes activated with  
 CC staphylococcus aureus. The amplified product is cloned and used to  
 CC exemplify the invention, which describes a method for treating  
 CC intracellular infections of warm-blooded mammals. This comprises  
 CC administering to the mammal a vector construct which directs the  
 CC expression of at least one immunogenic portion of an antigen derived from  
 CC an intracellular pathogen, and also administering a protein which  
 CC comprises the immunogenic portion of the antigen. The composition is used  
 CC to treat intracellular infections within warm-blooded animals e.g.  
 CC bacterial infections such as legionella, tuberculosis and chlamydia,  
 CC parasitic infections such as rickettsia, leishmaniasis or malaria and  
 CC viral infections like Hepatitis, Herpes, HIV and FIV  
 XX  
 SQ Sequence 22 BP; 7 A; 6 C; 6 G; 3 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 22;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1820 TCCTGCTCTGGGAGATCTTC 1839  
 DB 20 TCCTGCTCTGGGAGATCTGC 1  
 RESULT 827  
 AAD21248/c  
 ID AAD21248 standard; DNA; 22 BP.  
 XX  
 AC AAD21248;  
 XX  
 DT 15-JAN-2002 (first entry)  
 XX  
 DE Human PBMC IL-12 p40 subunit amplifying sense PCR primer.  
 XX  
 KW Hepatitis B; hepatitis C; immunogen; HBV; HCV; hepatocellular carcinoma;  
 KW HCC; Gene therapy; virucide; hepatotropic; antiinflammatory; cytostatic;  
 KW PCR primer; human; peripheral blood mononucleocyte; PBMC; interleukin-12;  
 KW IL-12 p40 subunit; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US6297048-B1.  
 XX  
 PD 02-OCT-2001.  
 XX  
 PF 07-JUN-1995; 95US-00483511.  
 XX  
 PR 04-FEB-1992; 92US-00830417.  
 PR 17-MAR-1993; 93US-00032385.  
 PR 04-AUG-1993; 93US-00102132.  
 PR 05-AUG-1994; 94US-00286829.  
 PR 19-JAN-1995; 95US-00374414.  
 XX  
 PA (CHIR ) CHIRON CORP.  
 XX  
 Jolly DJ, Chang SMW, Lee WTL, Townsend K, O'dea J;  
 WPI; 2001-647290/74.  
 XX  
 DR New vectors that direct the (co-)expression of one or more immunogenic  
 PT portions of the hepatitis B or C virus antigen(s), useful in gene  
 PT therapy, e.g. for treating or preventing hepatitis B or C infections, or





CC Sindbis virus. This sequence represents a PCR primer used in the method  
CC of the invention  
XX  
SQ Sequence 22 BP; 7 A; 6 C; 6 G; 3 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.8; DB 1; Length 22;  
Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1820 TCCTGCTCTGGGAGATCTTC 1839  
DB 20 TCTTGCTCTGGGAGATCTGC 1  
RESULT 830  
ID ABX96942/c  
ID ABX96942 standard; DNA; 22 BP.  
XX  
AC ABX96942;  
XX  
DT 15-MAY-2003 (first entry)  
XX  
DE Interleukin-12 (IL-12) DNA PCR primer #1.  
XX  
KW Human; HBV; HCV; interleukin-2; interleukin-12; interleukin-10; PCR; ss;  
KW hepatitis B virus; hepatitis C virus; intracellular infection; HSV; HIV;  
KW viral infection; herpes simplex virus; human immunodeficiency virus; FIV;  
KW feline immunodeficiency virus; parasitic infection; rickettsia; malaria;  
KW leishmaniasis; bacterial diseases; legionella; tuberculosis; chlamydia;  
KW interleukin-4; IL-12; IL-10; IL-4; internal ribosome entry site;  
KW interferon-gamma; IFN-gamma; IRES; immunomodulatory cofactor; B7; GM-CSF;  
KW granulocyte-macrophage colony-stimulating factor; K13-L1; primer.  
XX  
OS Homo sapiens.  
XX  
XX US2002165172-A1.  
XX  
PD 07-NOV-2002.  
XX  
PF 17-DEC-1999; 99US-00466035.  
XX  
PR 16-SEP-1997; 97US-00931031.  
XX  
PA (SALL/) SALLBERG M.  
PA (MILI/) MILICH D R.  
PA (LEEW/) LEE W T L.  
XX  
PI Sallberg M, Milich DR, Lee WTL;  
XX  
DR WPI; 2003-288144/28.  
XX  
PT Treating intracellular infections, e.g. viral, parasitic and bacterial  
PT diseases, comprises administering a vector construct which directs the  
PT expression of an immunogenic portion of an antigen from an intracellular  
PT pathogen.  
XX  
XX Example 2; Page 18; 69pp; English.  
XX  
CC The invention relates to a method for treating intracellular infections  
CC within warm-blooded animals comprising administering to a warm-blooded  
CC animal a vector construct which directs the expression of at least one  
CC immunogenic portion of an antigen derived from an intracellular pathogen,  
CC and a protein having the immunogenic portion of the antigen to generate  
CC an immune response. The method is useful for treating intracellular  
CC infections or diseases including viral infections (e.g. hepatitis B virus  
CC (HBV), hepatitis C virus (HCV), herpes simplex virus (HSV), human  
CC immunodeficiency virus (HIV) or feline immunodeficiency virus (FIV)),  
CC parasitic infections (e.g. rickettsia, leishmaniasis or malaria) and  
CC certain bacterial diseases (e.g. legionella, tuberculosis or chlamydia).  
CC Sequences ABX96883-ABX96937 and ABX96940-ABX96965 represent PCR primers  
CC used in the method of the invention  
XX  
SQ Sequence 22 BP; 7 A; 6 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 22;  
Best Local Similarity 90.0%; Pred. No. 1.1e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1820 TCCTGCTCTGGGAGATCTTC 1839  
DB 20 TCTTGCTCTGGGAGATCTGC 1  
RESULT 831  
ID AAF29247  
ID AAF29247 standard; DNA; 23 BP.  
XX  
AC AAF29247;  
XX  
DT 17-APR-2001 (first entry)  
XX  
DE PCR primer for amplification of antibody KKO H chain V region cDNA.  
XX  
KW Antibody; platelet factor 4; heparin; PF4/heparin complex; mouse; HIT;  
KW heparin induced thrombocytopenia; heparin induced thrombosis; HITT;  
KW PCR primer; KKO; ss.  
XX  
OS Mus musculus.  
XX  
PN WO200104159-A1.  
XX  
PD 18-JAN-2001.  
XX  
PF 13-JUL-2000; 2000WO-US019000.  
XX  
PR 13-JUL-1999; 99US-0143536P.  
XX  
XX (SCTE-) SCI & TECHNOLOGY CORP @UNM.  
XX  
PI Arepally G, Kiesel W, Kamei K, Kamei S;  
XX  
DR WPI; 2001-138321/14.  
XX  
PT Composition for the diagnosis and treatment of heparin induced  
PT thrombocytopenia/thrombosis, comprises an antibody that preferentially  
PT binds with a Platelet Factor 4/heparin complex.  
XX  
XX Example 1; Page 47; 80pp; English.  
XX  
CC This invention relates to a composition comprising a monoclonal antibody  
CC which binds specifically with a Platelet Factor 4 (PF4)/heparin complex.  
CC The antibody preferentially binds to the complex relative to the binding  
CC of the antibody with either of the components alone. Methods are included  
CC for the production of the antibody and its use in the diagnosis of  
CC various diseases. The composition can be used for diagnosing heparin  
CC induced thrombocytopenia/thrombosis, HIT/HITT. The composition can also  
CC be used for assessing the level of a polyclonal antibody that binds  
CC specifically within a bodily fluid or tissue sample. The present sequence  
CC represents a PCR primer used to amplify cDNA encoding the variable region  
CC of the heavy chain of the antibody of the invention which is referred to  
CC as KKO  
XX  
SQ Sequence 23 BP; 4 A; 2 C; 12 G; 3 T; 0 U; 2 Other;  
Query Match 0.4%; Score 16.8; DB 1; Length 23;  
Best Local Similarity 81.8%; Pred. No. 1.2e+03;  
Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 853 GAGGAGGAGCTGCTGGAGGCTG 874  
DB 1 GAGGTGAAGCTGCTGGAGCWG 22  
RESULT 832  
ID AAC83856  
ID AAC83856 standard; DNA; 23 BP.

XX AAC83856;  
AC  
XX 02-MAR-2001 (first entry)  
DT  
XX VH back PCR primer #5.  
DE  
XX Human; Fab fragment; antigen-binding; antibody; PCR primer; ss.  
KW  
XX Homo sapiens.  
OS  
XX EP1054018-A1.  
PN  
XX 22-NOV-2000.  
PD  
XX 18-MAY-1999; 99EP-00201558.  
PF  
XX 18-MAY-1999; 99EP-00201558.  
PR  
XX (TARG-) TARGET QUEST BV.  
PA  
XX Hoogenboom HRJM;  
PI  
XX WPI; 2001-042369/06.  
DR  
XX Phage display libraries of human Fab fragments useful for isolating high-affinity antibodies against specific target comprises polynucleotides encoding CDR containing domains of heavy chain and light chain genes.  
PT  
XX Disclosure; Fig 2; 74pp; English.  
PS  
XX The present invention relates to a human Fab fragment library. The Fab fragment library is useful for selecting an antigen-binding Fab using in vitro selection on immobilised or labelled antigen such as monoclonal Fab or polyclonal collection of Fab clones that specifically bind to MUC1. The obtained antibodies are useful as research reagents or as therapeutic products and also are important for target validation and target discovery in the area of functional genomics. The Fab library is a valuable source of antibodies for many different targets, and is useful to screen off-rates for a large series of the antigen specific Fabs. The present sequence is a PCR primer used to construct the Fab library of the present invention  
CC  
XX Sequence 23 BP; 3 A; 3 C; 12 G; 3 T; 0 U; 2 Other;  
SQ  
Query Match 0.4%; Score 16.8; DB 1; Length 23;  
Best Local Similarity 81.8%; Pred. No. 1.2e+03;  
Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 853 GAGGAGGAGCTGCTGGAGGCTG 874  
DB 1 GAGGTGACGCTGTGGAGWCYG 22  
RESULT 833  
AAC83855  
ID AAC83855 standard; DNA; 23 BP.  
XX  
AC AAC83855;  
DT  
XX 02-MAR-2001 (first entry)  
DT  
XX VH back PCR primer #4.  
DE  
XX Human; Fab fragment; antigen-binding; antibody; PCR primer; ss.  
KW  
XX Homo sapiens.  
OS  
XX EP1054018-A1.  
PN  
XX 22-NOV-2000.  
PD  
XX 18-MAY-1999; 99EP-00201558.  
PF

XX 18-MAY-1999; 99EP-00201558.  
PR  
XX (TARG-) TARGET QUEST BV.  
PA  
XX Hoogenboom HRJM;  
PI  
XX WPI; 2001-042369/06.  
DR  
XX Phage display libraries of human Fab fragments useful for isolating high-affinity antibodies against specific target comprises polynucleotides encoding CDR containing domains of heavy chain and light chain genes.  
PT  
XX Disclosure; Fig 2; 74pp; English.  
PS  
XX The present invention relates to a human Fab fragment library. The Fab fragment library is useful for selecting an antigen-binding Fab using in vitro selection on immobilised or labelled antigen such as monoclonal Fab or polyclonal collection of Fab clones that specifically bind to MUC1. The obtained antibodies are useful as research reagents or as therapeutic products and also are important for target validation and target discovery in the area of functional genomics. The Fab library is a valuable source of antibodies for many different targets, and is useful to screen off-rates for a large series of the antigen specific Fabs. The present sequence is a PCR primer used to construct the Fab library of the present invention  
CC  
XX Sequence 23 BP; 3 A; 3 C; 11 G; 5 T; 0 U; 1 Other;  
SQ  
Query Match 0.4%; Score 16.8; DB 1; Length 23;  
Best Local Similarity 81.8%; Pred. No. 1.2e+03;  
Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 853 GAGGAGGAGCTGCTGGAGGCTG 874  
DB 1 SAGGTGACGCTGTGGAGTCYG 22  
RESULT 834  
ABL99446  
ID ABL99446 standard; DNA; 23 BP.  
XX  
AC ABL99446;  
DT  
XX 02-JUL-2002 (first entry)  
DT  
XX Left PCR primer used to target prostaglandin D synthase canine gene.  
DE  
XX Canine gene array; toxicological response; ss.  
KW  
XX Canis sp.  
OS  
XX WO200208453-A2.  
PN  
XX 31-JAN-2002.  
PD  
XX 23-JUL-2001; 2001WO-US023311.  
PF  
XX 21-JUL-2000; 2000US-0220057P.  
PR  
XX (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY.  
PA  
XX Farr SB, Pickett GG, Neft RE, Dunn RT;  
PI  
XX WPI; 2002-217063/27.  
DR  
XX Identifying toxicologically relevant canine gene to determine PT  
toxicological responses of agents, by obtaining and comparing gene PT  
expression profiles of untreated canine cells and canine cells treated PT  
with an agent.  
XX  
PS Example 5; Page 52; 140pp; English.  
XX

CC This invention relates to identifying a toxicologically relevant canine  
 CC gene and the generation of an array of toxicologically relevant canine  
 CC genes. The gene array is useful for obtaining a gene expression profile,  
 CC by exposing a population of cells to an agent, obtaining cDNA from the  
 CC population of cells, labeling the cDNA, and contacting the cDNA with the  
 CC gene array. The relevant gene is useful for making and using arrays to  
 CC determine toxicological responses to various agents, and also useful for  
 CC identifying novel gene sequences and novel canine genes. The method for  
 CC analysing toxicological responses using the canine gene array is rapid  
 CC and efficient. The present sequence is related to the canine gene array  
 XX  
 SQ Sequence 23 BP; 4 A; 9 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 23;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1040 AGGTGTCCTGGAGTCCAAC 1059  
 |||||  
 Db 1 AGGTGTCCTGGAGTCCAAC 20

RESULT 835  
 ACF06327  
 ID ACF06327 standard; DNA; 23 BP.

XX AC ACF06327;  
 XX  
 DT 07-OCT-2003 (first entry)  
 XX  
 DE Zebrafish vasa PCR primer SEQ ID NO:3.  
 XX  
 KW Zebrafish; fish embryo cell line; chimeric fish; genetic; human disease;  
 KW vasa; PCR primer; ss.  
 XX  
 OS Danio rerio.  
 OS Synthetic.

XX WO2003051109-A1.  
 XX  
 PD 26-JUN-2003.  
 XX  
 PF 13-DEC-2002; 2002WO-US039913.  
 XX  
 PR 13-DEC-2001; 2001US-0341355P.  
 PR 12-FEB-2002; 2002CA-02371460.  
 XX  
 PA (PURD ) PURDUE RES FOUND.

XX Collodi P, Fan L, Ma C;  
 XX WPI; 2003-532958/50.  
 XX  
 PT New zebrafish embryo cell line, which becomes a germ cell when introduced  
 PT to a fish embryo, useful for making a germ line chimeric zebrafish, which  
 PT is a valuable model for genetic studies of human diseases.  
 XX  
 PS Example 2; Page 23; 45pp; English.

XX The present invention describes a fish embryo cell line, where a cell of  
 CC the fish embryo cell line, after incubation in vitro for at least 24  
 CC hours, will become a germ cell when introduced to a fish embryo. Also  
 CC described: (1) making the fish embryo cell line; (2) an isolated fish  
 CC embryo cell line obtained by the method of (1); (3) making a germ line  
 CC chimeric fish; (4) a germ line chimeric fish obtained by the method of  
 CC (3); and (5) cell culture media comprising a growth factor and fish cell  
 CC conditioned medium, or a growth factor and a fish cell, where the growth  
 CC factor is fibroblast growth factor or epidermal growth factor. The fish  
 CC embryo cell line is useful for making a germ line chimeric fish,  
 CC particularly zebrafish, which is a valuable model for genetic studies of  
 CC human diseases. The present sequence represents a PCR primer for  
 CC zebrafish vasa, which is used in an example from the present invention  
 XX

SQ Sequence 23 BP; 5 A; 4 C; 9 G; 5 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 23;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 646 GTGGAGGTGAATGGCAGCAA 665  
 |||||  
 Db 2 GTGGAGGTGAATGGCAGCAA 21

RESULT 836  
 AAL62076  
 ID AAL62076 standard; DNA; 23 BP.

XX AC AAL62076;  
 XX  
 DT 22-SEP-2003 (first entry)  
 XX  
 DE Human VH region amplifying antisense PCR primer, VH3B-Back.  
 XX  
 KW Micro-scaffold; immunoglobulin; complementarity determining region; CDR;  
 KW human; heavy chain variable region; VH; PCR; primer; ss.  
 XX  
 OS Homo sapiens.

XX WO2003050531-A2.  
 XX  
 PD 19-JUN-2003.

XX 11-DEC-2002; 2002WO-BE000189.  
 XX  
 PR 11-DEC-2001; 2001EP-00870274.  
 XX  
 PA (ALGO-) ALGONOMICS NV.  
 PA (ABLY-) ABLYNX NV.

XX Lasters I, Pletinckx J, Boutonnet N, Lauwereys M, Beirnaert E;  
 XX WPI; 2003-577302/54.  
 XX  
 PT New isolated polypeptide micro-scaffold displaying immunoglobulin  
 PT complementarity determining region (CDR) 2 or CDR3 polypeptide sequences,  
 PT useful for searching, selecting and screening for immunoglobulin CDR2 or  
 PT CDR3 polypeptide sequences.

XX Example 1; Page 29; 90pp; English.  
 XX  
 CC The invention relates to an isolated polypeptide micro-scaffold  
 CC displaying immunoglobulin complementarity determining region (CDR)-2 or  
 CC CDR3 polypeptide sequences, comprising a CDR2 or CDR3 polypeptide  
 CC sequence interconnecting fragments of the adjacent framework polypeptide  
 CC sequences, which are arranged to form two anti-parallel beta-strands. The  
 CC polypeptide micro-scaffold and the nucleotide sequences are useful for  
 CC searching, selecting and screening for immunoglobulin CDR2 or CDR3  
 CC polypeptide sequences. The present sequence is a PCR primer used for the  
 CC primary amplification of human heavy chain variable region (VH)

XX SQ Sequence 23 BP; 3 A; 3 C; 11 G; 5 T; 0 U; 1 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 23;  
 Best Local Similarity 81.8%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGTGGAGCTG 874  
 |||||  
 Db 1 SAGGTGACAGCTGTGGAGTCTG 22

RESULT 837  
 ACF05339  
 ID ACF05339 standard; DNA; 23 BP.

XX



CC cells that is infiltrated into lesioned tissue, and (b) acquiring  
 CC polynucleotide that encodes an antibody from the isolated B cells. The  
 CC antibodies are useful for treating cancer lesions, arteriosclerosis,  
 CC inflammatory disease or autoimmune disease. The present sequence was used  
 CC to illustrate the invention.

XX Sequence 23 BP; 3 A; 3 C; 11 G; 5 T; 0 U; 1 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 23;

Best Local Similarity 81.8%; Pred. No. 1.2e+03;

Matches 18; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGGTGGAGGCTG 874

DB 1 GARGTCAGCTGGTGGAGTCTG 22

RESULT 840

AAT39968/C

ID AAT39968 standard; DNA; 24 BP.

XX AC AAT39968;

XX AC AAT39968;

DT 24-JUN-1997 (first entry)

XX AC AAT39968;

DE Minimal motif coding sequence ZGR1/ZGR2.

XX Epstein-Barr virus; EBV; nuclear antigen; EBVNA1; antigenic protein;  
 KW Glycine-rich repeat sequence; immune system; regulatory protein; enzyme;  
 KW cytokine; lymphokine; cell adhesion molecule; costimulatory molecule;  
 KW drug resistance; tumour suppressant; genetic disease; viral disease;  
 KW enzyme disorder; Gaucher's disease; cancer; immune system disorder; GRRS;  
 KW gene therapy; minimal motif; ds.

XX Synthetic.

XX Key

FT misc\_feature Location/Qualifiers

FT 1. .4

FT /tag= a

FT /note= "5' overhang"

FT misc\_feature complement (24)

FT /tag= b

FT /note= "5' overhang of TTCC"

XX WO9632483-A1.

PN 17-OCT-1996.

PD 10-APR-1996;

XX 96WO-GB000876.

XX 10-APR-1995;

PR 95SE-00001324.

PR 01-SEP-1995;

PR 95US-00522995.

PR 15-SEP-1995;

XX 95US-00529190.

PA (MASU/) MASUCCI M.

XX Masucci M;

PI WPI; 1996-477134/47.

DR P-PSDB; AAW05707.

XX New proteins containing GRRS which are invisible to the immune system -

PT used for treating cancer, immune system disorders, viral diseases, etc.

XX Example 1; Page 43; 61pp; English.

XX AAT39966-T39973 represent double stranded coding sequences for minimal

CC motifs of Glycine-rich repeat sequences (GRRS). Full length GRRS

CC sequences, such as the Epstein-Barr virus strain B95.8 nuclear antigen

CC (EBNA1) represented by AAW05704, can be used in the method of the

CC invention. The method of the invention is for making an antigenic protein

CC invisible to the immune system, and consists of inserting a GRRS into the

CC antigenic protein. The method can be used to insert a GRRS into

CC therapeutic proteins, marker genes, regulatory proteins of viral vectors,  
 CC or vaccine components. The therapeutic proteins include enzymes,  
 CC cytokines, lymphokines, cell adhesion molecules, costimulatory molecules,  
 CC or protein products of drug resistant genes or tumour suppressor genes.  
 CC The antigenic proteins or corresponding nucleic acids are used to treat  
 CC genetic and viral diseases, especially enzyme disorders such as Gaucher's  
 CC disease, cancer, immune system disorders and other diseases treatable by  
 CC gene therapy

XX Sequence 24 BP; 5 A; 2 C; 14 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;

Best Local Similarity 90.0%; Pred. No. 1.2e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2104 ACCCCAGCTCCAGCTCCTC 2123

DB 24 ACCCGACCTCCAGCTCCTC 5

RESULT 841

AAV55819

ID AAV55819 standard; DNA; 24 BP.

XX AC AAV55819;

XX AC AAV55819;

DT 27-AUG-2003 (revised)

DT 18-NOV-1998 (first entry)

XX Multimerisation of minimal motifs using primer ZGE2.

DE Fusion protein; stabilising polypeptide; proteolytic degradation;

XX resistance; half-life; autoimmune disease; inflammation; nitro drug;

KW IkappaB regulator protein; inflammatory bowel disease; in vivo imaging;

KW nitroreductase protein; enzyme therapy; prodrug therapy; protease;

KW cancer; pathological condition; minimal motif; PCR primer; ss.

XX Synthetic.

OS Human herpesvirus 4.

XX WO9822577-A1.

XX 28-MAY-1998.

XX 17-NOV-1997;

XX 97WO-IB001508.

XX 15-NOV-1996;

PR 96US-0030986P.

PR 25-JUN-1997;

XX 97US-0048945P.

XX (MASU/) MASUCCI M G.

XX Masucci MG;

XX WPI; 1998-312463/27.

XX New fusion proteins resistant to proteolytic degradation - comprising a

PT core protein with a stabilising polypeptide comprising a peptide sequence

PT containing glycine repeats.

XX Disclosure; Page 72; 120pp; English.

XX Sequences shown in AAV55812 to AAV55827 represent primers used in the

CC course of the invention for the multimerisation of minimal motifs. The

CC invention provides a method for increasing the resistance of a core

CC protein to proteolytic degradation that comprises linking or inserting

CC onto or into the core protein a stabilising polypeptide of formula

CC [(Gly)X(Glyb)Y(Glyc)Z]n where Glya, Glyb, Glyc are 1-6 sequential Gly

CC residues and X, Y, Z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr

CC and n can be anything between 1-66. X, Y and Z need not be identical from

CC n repeat to n repeat. Alternatively a nucleic acid encoding a stabilising

CC polypeptide can be linked onto or inserted into a nucleic acid encoding a

CC core protein. The fusion proteins of the invention are more resistant to

CC degradation by proteases and, thus, have a longer half-life than the

CC unused core protein. The products can be used for treating autoimmune  
 CC diseases, cancer and inflammation. In particular, the core protein may be  
 CC an IkappaB regulator protein for the treatment of inflammatory bowel  
 CC disease, or a nitroreductase protein which can activate nitro drugs in  
 CC enzyme/prodrug therapy to treat cancer or other pathological conditions.  
 CC The fusion proteins can also be used in diagnostic methods such as in  
 CC vivo imaging. (Updated on 27-AUG-2003 to correct OS field.)  
 CC  
 XX  
 SQ Sequence 24 BP; 3 A; 14 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2103 CACCCCGAGCTCCAGCTCCT 2122  
 ||||| ||||| ||||| |||||  
 Db 4 CACCCCGAGCTCCAGCTCCT 23

RESULT 842  
 AAV55816/C  
 ID AAV55816 standard; DNA; 24 BP.  
 XX  
 AC AAV55816;

XX 27-AUG-2003 (revised)  
 DT 18-NOV-1998 (first entry)

XX Multimerisation of minimal motifs using primer ZGR1.

XX Fusion protein; stabilising polypeptide; proteolytic degradation;  
 KW resistance; half-life; autoimmune disease; inflammation; nitro drug;  
 KW IkappaB regulator protein; inflammatory bowel disease; in vivo imaging;  
 KW nitroreductase protein; enzyme therapy; prodrug therapy; protease;  
 KW cancer; pathological condition; minimal motif; PCR primer; ss.

XX Synthetic.  
 OS Human herpesvirus 4.  
 OS  
 PN WO9822577-A1.  
 XX 28-MAY-1998.

XX 17-NOV-1997; 97WO-18001508.

XX 15-NOV-1996; 96US-0030986P.  
 PR 25-JUN-1997; 97US-0048945P.

XX (MASU/) MASUCCI M G.

XX Masucci MG;

XX WPI; 1998-312463/27.

XX New fusion proteins resistant to proteolytic degradation - comprising a  
 PT core protein with a stabilising polypeptide comprising a peptide sequence  
 PT containing glycine repeats.

PS Disclosure; Page 72; 120pp; English.

XX Sequences shown in AAV55812 to AAV55827 represent primers used in the  
 CC course of the invention for the multimerisation of minimal motifs. The  
 CC invention provides a method for increasing the resistance of a core  
 CC protein to proteolytic degradation that comprises linking or inserting  
 CC onto or into the core protein a stabilising polypeptide of formula  
 CC [(Gly)X(Gly)Y(Gly)Z]n where Gly, Glyb, Glyc are 1-6 sequential Gly  
 CC residues and X, Y, Z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr  
 CC and n can be anything between 1-66. X, Y and Z need not be identical from  
 CC n repeat to n repeat. Alternatively a nucleic acid encoding a stabilising  
 CC polypeptide can be linked onto or inserted into a nucleic acid encoding a  
 CC core protein. The fusion proteins of the invention are more resistant to  
 CC degradation by proteases and, thus, have a longer half-life than the  
 CC unused core protein. The products can be used for treating autoimmune

CC diseases, cancer and inflammation. In particular, the core protein may be  
 CC an IkappaB regulator protein for the treatment of inflammatory bowel  
 CC disease, or a nitroreductase protein which can activate nitro drugs in  
 CC enzyme/prodrug therapy to treat cancer or other pathological conditions.  
 CC The fusion proteins can also be used in diagnostic methods such as in  
 CC vivo imaging. (Updated on 27-AUG-2003 to correct OS field.)  
 CC  
 XX  
 SQ Sequence 24 BP; 5 A; 2 C; 14 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2104 ACCCCGAGCTCCAGCTCCTC 2123  
 ||||| ||||| ||||| |||||  
 Db 24 ACCCGAGCTCCAGCTCCTC 5

RESULT 843  
 AAX26955  
 ID AAX26955 standard; DNA; 24 BP.  
 XX  
 AC AAX26955;

XX 24-JUN-1999 (first entry)

XX PCR primer GR1/51F used to identify mutations in exon 6 of APECD gene.  
 DE Autoimmune regulator; AIR; immune maturation; immune response; disease;  
 KW autoimmune polyendocrinopathy candidiasis ectodermal dysplasia; APECD;  
 KW autoimmune polyglandular syndrome type 1; AFS 1; PCR primer; ss.

XX Synthetic.  
 OS Homo sapiens.  
 XX WO9915559-A1.  
 PN 01-APR-1999.

XX 23-SEP-1998; 98WO-FI000749.

XX 23-SEP-1997; 97FI-00003762.

XX (FIRM-) FINNISH IMMUNOTECHNOLOGY LTD.

XX Krohn K, Heino M, Peterson P, Scott H, Antonarakis S, Lalioti M;  
 PI Shimizu N, Kudoh J;

XX WPI; 1999-244390/20.

XX Autoimmune regulator 1 (AIR1) DNA sequence.

XX Example 3; Page 13; 59pp; English.

XX PCR primers AAX26955-56 were used to identify mutations in exon 6 of the  
 CC autoimmune polyendocrinopathy candidiasis ectodermal dysplasia (APECD)  
 CC (also known as autoimmune polyglandular syndrome type 1 (AFS I)) gene.  
 CC The mutated and normal genes give PCR products of different sizes, the  
 CC products being 285 and 225 bp, respectively. The specification describes  
 CC autoimmune regulator proteins (AIR-1, AIR-2, and AIR-3). The AIR  
 CC polypeptides and polynucleotides can be used in methods for the diagnosis  
 CC and treatment of diseases related to immune maturation and regulation of  
 CC immune response towards self and nonself. They can be used particularly  
 CC in the diagnosis and treatment of APECD

XX Sequence 24 BP; 6 A; 7 C; 8 G; 3 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.8; DB 1; Length 24;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1600 GCCTCCGAGAGTCATCCA 1619  
 ||||| ||||| ||||| |||||

Db 3 GGCTCCAGAGTGCATCCA 22

RESULT 844  
AAZ90146  
ID AAZ90146 standard; DNA; 24 BP.  
XX  
AC AAZ90146;  
XX  
DT 19-MAY-2000 (first entry)  
XX  
DE Fibronectin inhibitor oligonucleotide #3.  
XX  
KW Fibronectin inhibitor; GBP-1; cell growth; cancer; cell aging; ss.  
XX  
OS Unidentified.  
XX  
PN JP2000014385-A.  
XX  
PD 18-JAN-2000.  
XX  
PF 06-JUL-1998; 98JP-00190001.  
XX  
PR 06-JUL-1998; 98JP-00190001.  
XX  
PA (SUME ) SUMITOMO ELECTRIC IND CO.  
XX  
DR WPI; 2000-154339/14.  
XX  
PT A DNA coding a protein inhibiting the expression of fibronectin gene -  
used for research of expression inhibition of fibronectin related to cell  
growth, cancer and cell ageing.  
XX  
PS Disclosure; Fig 8; 21pp; Japanese.  
XX  
CC This sequence represents a fibronectin inhibitor oligonucleotide. The  
invention relates to a fibronectin inhibitor protein GBP-1. The GBP-1  
protein inhibits the expression of the fibronectin gene. The protein  
sequence can be used to produce antibodies against the GBP-1 protein. The  
GBP-1 DNA, protein and antibody sequences can be used for the research of  
expression inhibition of fibronectin in relation to cell growth, cancer  
and cell aging  
XX  
SQ Sequence 24 BP; 3 A; 4 C; 14 G; 3 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.8; DB 1; Length 24;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2928 CGTGGGGGGCGTGAGGGA 2947  
|||||  
Db 3 CGTGGGGGGCGGAGGGA 22  
|||||

RESULT 846  
AAL47757  
ID AAL47757 standard; DNA; 24 BP.  
XX  
AC AAL47757;  
XX  
DT 18-SEP-2002 (first entry)  
XX  
DE Ras gene PCR primer SEQ ID NO: 53.  
XX  
KW K-ras; N-ras; H-ras; ras; oncogene; mutation detection; PCR; primer;  
probe; restriction mediated selection PCR; cancer; ss.  
XX  
OS Unidentified.  
XX  
PN WO200229005-A2.  
XX  
PD 11-APR-2002.  
XX  
PF 02-OCT-2001; 2001WO-US042422.  
XX  
PR 02-OCT-2000; 2000US-0237416P.  
XX  
PA (ORTH ) ORTHO CLINICAL DIAGNOSTICS INC.  
XX  
PI Belly RT, Todd AV, Fuery CJ;  
XX  
DR WPI; 2002-479599/51.  
XX  
PT Amplifying and determining mutant sequences in DNA sample using  
thermostable restriction enzyme so that during thermocycling mutant  
sequences are enriched while wild-type sequences and/or primer induced  
sites are cleaved.  
XX  
PS Claim 1; Page 84; 116pp; English.  
XX  
CC The present invention relates to a method of amplifying and determining  
target mutant Ras sequences in a DNA sample, involving the use of a  
thermostable restriction enzyme and primers shown in AAL47705-AAL47771.  
The method used is designated restriction mediated selection polymerase  
chain reaction (REMS-PCR). The method can be used to detect H-ras, K-ras

Db 3 GGCTCCAGAGTGCATCCA 22

RESULT 844  
AAZ90153  
ID AAZ90153 standard; DNA; 24 BP.  
XX  
AC AAZ90153;  
XX  
DT 19-MAY-2000 (first entry)  
XX  
DE Fibronectin inhibitor oligonucleotide #6.  
XX  
KW Fibronectin inhibitor; GBP-1; cell growth; cancer; cell aging; ss.  
XX  
OS Unidentified.  
XX  
PN JP2000014385-A.  
XX  
PD 18-JAN-2000.  
XX  
PF 06-JUL-1998; 98JP-00190001.  
XX  
SQ Sequence 24 BP; 3 A; 4 C; 14 G; 3 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.8; DB 1; Length 24;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2928 CGTGGGGGGCGTGAGGGA 2947  
|||||  
Db 3 CGTGGGGGGCGGAGGGA 22  
|||||

RESULT 845  
AAZ90153  
ID AAZ90153 standard; DNA; 24 BP.  
XX  
AC AAZ90153;  
XX  
DT 19-MAY-2000 (first entry)  
XX  
DE Fibronectin inhibitor oligonucleotide #6.  
XX  
KW Fibronectin inhibitor; GBP-1; cell growth; cancer; cell aging; ss.  
XX  
OS Unidentified.  
XX  
PN JP2000014385-A.  
XX  
PD 18-JAN-2000.  
XX  
PF 06-JUL-1998; 98JP-00190001.  
XX  
SQ Sequence 24 BP; 3 A; 4 C; 14 G; 3 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.8; DB 1; Length 24;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2928 CGTGGGGGGCGTGAGGGA 2947  
|||||  
Db 3 CGTGGGGGGCGGAGGGA 22  
|||||

CC and N-ras mutations, which may lead to cancer. The present sequence is a  
 CC PCR primer useful in the method of the invention  
 XX  
 SQ Sequence 24 BP; 3 A; 6 C; 10 G; 5 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 834 GCTGGTGGTGTGCTCCAGCCG 853  
 DB 5 GCTGGTGGTGTGCTCCAGCCG 24

RESULT 847  
 ADQ30147/C  
 ID ADQ30147 standard; DNA; 24 BP.

XX ADQ30147;  
 XX  
 DT 09-SEP-2004 (first entry)  
 XX  
 DE Murine VR1 exon 1d transcription factor binding fragment #39.

XX ds; VR1 receptor; vanilloid receptor type 1; modulator;  
 KW pain transmission; primary sensory neuron; transcription factor;  
 KW detection; MZF1; NFkappaB; NFAT; GATA1; sensitivity disorder; analgesia;  
 KW hypalgesia; hyperalgesia; neuralgia; myalgia; murine.  
 XX

OS Mus sp.  
 XX WO2004053120-A2.  
 PN  
 PD 24-JUN-2004.

XX 01-DEC-2003; 2003WO-EP013522.  
 XX 09-DEC-2002; 2002DE-01057421.  
 XX (CHEF ) GRUENENTHAL GMBH.  
 PA

XX Weihe E, Bieller A, Schaefer MKH;  
 PI WPI; 2004-468868/44.  
 XX

XX New nucleic acid that modulates expression of the vanilloid receptor-1,  
 PT useful for control of pain or sensitivity disorders, comprises sequences  
 PT from control regions of the receptor gene.  
 XX

PS Disclosure; Page 49; 68pp; German.

XX This invention describes a novel nucleic acid containing a specific  
 CC segment having at least one region that modulates expression of the VR1  
 CC (vanilloid receptor type 1) receptor, or a functional derivative, allele  
 CC or fragment of this region, or a sequence that hybridises to it under  
 CC standard conditions. The VR1 modulator is derived from one or more of  
 CC positions 221931-223344 of GenBank AL670399, 31673-36359 of AL663116, or  
 CC 4731-43231 or 36616-33151 of AF168787 and is involved in transmission of  
 CC pain, particularly in primary sensory neurons. The invention also  
 CC describes a vector that contains the VR1 modulator, host cells containing  
 CC this vector (other than human germ or embryonal stem cells) and a method  
 CC for modulating expression of the VR1 receptor by introducing the  
 CC modulator or the vector into a cell that contains the VR1 gene. The  
 CC products of the invention are used for detecting a transcription factor  
 CC from its binding to a regulatory sequence (or a double-stranded  
 CC oligonucleotide fragment of it), e.g. by Western blotting or enzyme-  
 CC linked immunosorbant assay, particularly for diagnosis of diseases  
 CC associated with overexpression or underexpression of the transcription  
 CC factor. The region that modulates VR1 receptor expression includes a  
 CC binding site for a transcription factor, e.g. MZF1, NFkappaB, NFAT or  
 CC GATA1. The nucleic acids of the invention, or vectors containing them,  
 CC are used for prevention or treatment of pain, also for treating  
 CC sensitivity disorders, e.g. analgesia, hypalgesia or hyperalgesia, also

CC neuralgia and myalgia, that are associated with activity of the VR1  
 CC receptor. This sequence represents a fragment of murine VR1 exon 1d DNA  
 CC which is capable of binding to a transcription factor.

XX Sequence 24 BP; 13 A; 6 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.8; DB 1; Length 24;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3299 TTCTATAGGATTTTCTTT 3318  
 DB 21 TTCTCTAGGATTTTGT 2

RESULT 848  
 AAF74922/C  
 ID AAF74922 standard; DNA; 29 BP.

XX AAF74922;  
 XX  
 DT 23-MAY-2001 (first entry)  
 XX  
 DE CD40L poly-A tract sequence SEQ ID NO:19.

XX Human; CD40L; promoter; CD40 ligand promoter; rheumatoid arthritis;  
 KW diagnosis; antiarthritic; antirheumatic; immunosuppressive;  
 KW antinflammatory; inflammatory disease; autoimmune disease; ds.  
 XX

OS Homo sapiens.

XX WO200119844-A1.  
 PN  
 PD 22-MAR-2001.

XX 13-SEP-2000; 2000WO-US024966.  
 XX 13-SEP-1999; 99US-0153625P.  
 XX (NYRE-) NEW YORK SOC RELIEF RUPTURED & CRIPPLED.  
 PA

XX Crow MK, Li Y;

XX WPI; 2001-244776/25.

XX New altered CD40L promoter for use in the study, diagnosis and treatment  
 PT of a variety of inflammatory disorders and autoimmune diseases, such as  
 PT rheumatoid arthritis.  
 XX

PS Example 1; Fig 3; 90pp; English.

XX The present invention describes an isolated, purified nucleic acid, which  
 CC is an altered CD40 ligand (CD40L) promoter (I) for CD40 ligand, having  
 CC residues 331-455 of the sequence comprising 455 nucleotides given in  
 CC AAF74905 where A in the wild type sequence at position 331 (corresponding  
 CC to position -125) is replaced with C. (I) has antiarthritic,  
 CC antirheumatic, immunosuppressive and antinflammatory activities, and can  
 CC be used in gene therapy. (I) is useful in the study, diagnosis and  
 CC treatment of inflammatory and autoimmune diseases, as well as diseases in  
 CC which elevated expression of CD40L is a factor, e.g., rheumatoid  
 CC arthritis. The present sequence represents a CD40L poly-A tract sequence  
 CC which is used in an example from the present invention

XX Sequence 29 BP; 22 A; 4 C; 0 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.4%; Score 16.8; DB 1; Length 29;  
 Best Local Similarity 75.0%; Pred. No. 1.5e+03;  
 Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 3258 AAGATATTTTATTTGCTTTGCTTTT 3285  
 DB 28 AAGTTTGTGTTGTTTGTGTTT 1







DR WPI; 1998-286974/25.

XX New isolated nucleic acid segments from the human genome - used for

PT determining polymorphic forms for use in e.g. forensics, paternity

PT testing or phenotypic typing for disease.

XX

XX Claim 16; Page 202; 310pp; English.

XX

XX AAX09121-X10268 are allele-specific oligonucleotide primers used in the

CC isolation of various biallelic polymorphic markers found in the human

CC genome (represented in AX10269-X12937). These primers can be used in a

CC method for determining polymorphic forms in an individual for use in e.g.

CC forensics, paternity testing or for phenotypic typing for diseases such

CC as agammaglobulinemia, diabetes insipidus, Leech-Nyhan syndrome, muscular

CC dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial

CC hypercholesterolemia, polycystic kidney disease, hereditary

CC spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary

CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos

CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,

CC autoimmune diseases, inflammation, cancer, diseases of the nervous

CC system, infection by pathogenic microorganisms, and characteristics such

CC as longevity, appearance (e.g. baldness, obesity), strength, speed,

CC endurance, fertility, and susceptibility or receptivity to particular

CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid

CC segments can also be used to produce medicaments for the treatment or

CC prophylaxis of such diseases

XX

SQ Sequence 23 BP; 8 A; 1 C; 7 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;

Best Local Similarity 82.6%; Pred. No. 1.2e+03;

Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1354 GAGATGATGAAGATGATCGGAA 1376

DB 1 GAGATGTTGAAATGTTCTGGAA 23

RESULT 854

AAZ00748/c

ID AAZ00748 standard; DNA; 23 BP.

XX

XX AAZ00748;

XX

XX 07-OCT-1999 (first entry)

XX

DE Human FGFR-4 transmembrane domain PCR primer #2.

XX

KW FGFR-4; transmembrane domain; human; fibroblast growth factor receptor;

KW overexpression; cytostatic; receptor tyrosine kinase inhibitor; cancer;

KW kinase inactive; treatment; prophylaxis; tyrosine kinase-related;

KW hyperproliferation; invasion; disease; carcinoma; metastasis; detection;

KW breast cancer; squamous cell carcinoma; glioblastoma; neuroblastoma;

KW uterine cancer; diagnosis; screening assay; predisposition; mutant;

KW PCR primer; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

PN WO9937299-A1.

XX

PD 29-JUL-1999.

XX

PF 22-JAN-1999; 99WO-EP000405.

XX

PR 22-JAN-1998; 98DE-01002377.

XX

XX (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

PA

PI Ullrich A, Bange J, Knyazev P;

XX

XX WPI; 1999-478980/40.

XX

XX A mutated fibroblast growth factor receptor 4 overexpressed or having

PT altered activity, useful in diagnosis of cancer cells.

XX

XX Example; Page 16; 51pp; German.

XX

XX This invention describes a novel mutated fibroblast growth factor

CC receptor (FGFR)-4, that causes overexpression and/or altered activity of

CC the receptor in cells and has cytostatic activity. The product of the

CC invention is a receptor tyrosine kinase inhibitor. A receptor tyrosine

CC kinase inhibitor, especially mutated FGFR-4 (kinase inactive) is useful

CC for treatment and/or prophylaxis of over functional receptor tyrosine

CC kinase-related conditions, especially cancer. The inhibitor can also be

CC used to treat cancer and/or hyperproliferation and/or invasion that leads

CC back to disease, particularly carcinoma, particularly through inhibition

CC of metastasis. The inhibitor is used to treat breast cancer, squamous

CC cell carcinoma, glioblastoma, neuroblastoma and/or uterine cancer.

CC Detection of a mutated FGFR-4 or a sequence encoding it, can be used in

CC differential diagnosis of cancer, or in a screening assay to determine a

CC predisposition to developing cancer. This sequence represents a PCR

CC primer used to amplify the FGFR-4 fragment used in the method of the

CC invention

XX

SQ Sequence 23 BP; 7 A; 2 C; 11 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;

Best Local Similarity 82.6%; Pred. No. 1.2e+03;

Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1009 CACAGATCTCCGGTTCGGCT 1031

DB 23 CAGAGCTCTCCCTCTTCCCTCT 1

RESULT 855

AAZ00750/c

ID AAZ00750 standard; DNA; 23 BP.

XX

XX AAZ00750;

XX

XX 07-OCT-1999 (first entry)

XX

DE Human FGFR-4 transmembrane domain PCR primer #4.

XX

KW FGFR-4; transmembrane domain; human; fibroblast growth factor receptor;

KW overexpression; cytostatic; receptor tyrosine kinase inhibitor; cancer;

KW kinase inactive; treatment; prophylaxis; tyrosine kinase-related;

KW hyperproliferation; invasion; disease; carcinoma; metastasis; detection;

KW breast cancer; squamous cell carcinoma; glioblastoma; neuroblastoma;

KW uterine cancer; diagnosis; screening assay; predisposition; mutant;

KW PCR primer; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

PN WO9937299-A1.

XX

PD 29-JUL-1999.

XX

PF 22-JAN-1999; 99WO-EP000405.

XX

PR 22-JAN-1998; 98DE-01002377.

XX

XX (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

PA

PI Ullrich A, Bange J, Knyazev P;

XX

XX WPI; 1999-478980/40.

XX

XX A mutated fibroblast growth factor receptor 4 overexpressed or having

PT altered activity, useful in diagnosis of cancer cells.

XX

XX Example; Page 16; 51pp; German.

XX

CC This invention describes a novel mutated fibroblast growth factor  
 CC receptor (FGFR)-4, that causes overexpression and/or altered activity of  
 CC the receptor in cells and has cytostatic activity. The product of the  
 CC invention is a receptor tyrosine kinase inhibitor. A receptor tyrosine  
 CC kinase inhibitor, especially mutated FGFR-4 (kinase inactive) is useful  
 CC for treatment and/or prophylaxis of over functional receptor tyrosine  
 CC kinase-related conditions, especially cancer. The inhibitor can also be  
 CC used to treat cancer and/or hyperproliferation and/or invasion that leads  
 CC back to disease, particularly carcinoma, particularly through inhibition  
 CC of metastasis. The inhibitor is used to treat breast cancer, squamous  
 CC cell carcinoma, glioblastoma, neuroblastoma and/or uterine cancer.  
 CC Detection of a mutated FGFR-4 or a sequence encoding it, can be used in  
 CC differential diagnosis of cancer, or in a screening assay to determine a  
 CC predisposition to developing cancer. This sequence represents a PCR  
 CC primer used to amplify the FGFR-4 fragment used in the method of the  
 CC invention  
 CC XX  
 SQ Sequence 23 BP; 7 A; 2 C; 11 G; 3 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.6; DB 1; Length 23;  
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;  
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 1009 CACAGATCTCCGCTCCCGT 1031  
 Db 23 CAGAGCTCTCCCTCTCCCTCT 1  
 RESULT 856  
 AAC83579/C  
 ID AAC83579 standard; DNA; 23 BP.  
 XX AAC83579;  
 AC AAC83579;  
 DT 28-FEB-2001 (first entry)  
 DE Human FMR1 gene triplet repeat PCR primer NM-B5-for.  
 XX Human; FMR1; FMRP; Fragile X syndrome; methylation; diagnosis;  
 KW chromosome Xq27.3; PCR primer; ss.  
 XX Homo sapiens.  
 XX US6143504-A.  
 XX 07-NOV-2000.  
 XX 27-OCT-1999; 99US-00429499.  
 XX 27-OCT-1999; 99US-00429499.  
 XX (ARCH-) ARCH DEV CORP.  
 XX Das S, Ledbetter DH;  
 XX WPI; 2001-006432/01.  
 XX Determining methylation state of FMR1 gene promoter for diagnosing  
 PT fragile X syndrome in males involves denaturing DNA sample, subjecting  
 PT DNA to bisulfite modification, amplifying DNA and detecting products.  
 XX Claim 17; Col 31; 20pp; English.  
 XX The present invention describes a novel method of diagnosing Fragile X  
 CC syndrome using a PCR-based method of methylation analysis. The FMR1 gene  
 CC promoter, located at chromosome Xq27.3, is composed of a CG  
 CC trinucleotide repeat. The expansion of this repeat leads to a premutation  
 CC and then a full mutation, the latter of which is likely to cause the  
 CC methylation of a nearby CpG island, causing the Fragile X syndrome  
 CC phenotype. This method is useful in the design of appropriate therapies  
 CC and counselling for affected individuals and carriers  
 CC XX  
 SQ Sequence 23 BP; 11 A; 10 C; 0 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;  
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;  
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 2328 TGTGTGCGTGTGTGTGTGTGTGT 2350  
 Db 23 TTTGGAGTGTGTGTGTGTGTGT 1  
 RESULT 857  
 AAL48953/C  
 ID AAL48953 standard; DNA; 23 BP.  
 XX AAL48953;  
 AC AAL48953;  
 DT 24-OCT-2002 (first entry)  
 DE Hepatitis C virus E1 protein coding sequence PCR primer OVR3.  
 XX Hepatitis C virus; HCV; E1 protein; E2 protein; infection; primer; PCR;  
 KW Hepatitis C virus; HCV; E1 protein; E2 protein; infection; primer; PCR;  
 XX virucide; immunostimulant; vaccine; ss.  
 OS Hepatitis C virus.  
 XX WO200255548-A2.  
 XX 18-JUL-2002.  
 XX 11-JAN-2002; 2002WO-EP000219.  
 XX 11-JAN-2001; 2001US-0260669P.  
 XX 30-AUG-2001; 2001US-0315768P.  
 XX (INNO-) INNOGENETICS NV.  
 PI Maertens G, Bosman F, Buyse M;  
 DR WPI; 2002-599657/64.  
 XX New therapeutic vaccine compositions comprising at least one purified  
 PT recombinant hepatitis C virus (HCV) single or specific oligomeric  
 PT recombinant envelope protein E1 or E2, useful for immunizing humans from  
 PT HCV infection.  
 XX Example 8; Page 236; 243pp; English.  
 XX The present invention relates to new therapeutic vaccine compositions for  
 CC inducing hepatitis C virus (HCV)-specific antibodies, comprising a  
 CC composition containing at least one purified recombinant HCV single or  
 CC specific oligomeric recombinant envelope proteins selected from an E1 and  
 CC an E2 protein, and optionally a pharmaceutical adjuvant. The vaccines are  
 CC useful for inducing HCV-specific antibodies or for immunising humans  
 CC against HCV. The recombinant HCV E1 and/or E2 proteins are useful as  
 CC vaccines or therapeutics, in HCV screening and confirmatory antibody  
 CC tests, for raising antibodies, in the preparation of medicament, and for  
 CC in vitro monitoring of HCV disease or prognosing the response to  
 CC treatment of patients suffering from HCV infection. The present sequence  
 CC is a PCR primer used in the production of vectors in the exemplification  
 CC of the invention  
 XX SQ Sequence 23 BP; 2 A; 8 C; 9 G; 4 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.6; DB 1; Length 23;  
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;  
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 2164 GCCCACCAGCAGTGGGGGCTC 2186  
 Db 23 GCGCTACCAGCAGCGGGAGCTC 1  
 RESULT 858

```
ADD69476/c
ID   ADD69476 standard; DNA; 23 BP.
XX
AC   ADD69476;
XX
DT   15-JAN-2004 (first entry)
XX
DE   3' anchored (ISSR)-PCR primer - SEQ ID 34.
XX
KW   inter-simple sequence repeat; ISSR; SSR; PCR; primer; genotyping; plant;
XX   animal; Basmati rice; ss.
XX
OS   Synthetic.
XX
PN   WO2003085133-A2.
XX
PD   16-OCT-2003.
XX
PF   09-JAN-2003; 2003WO-IB000041.
XX
PR   08-APR-2002; 2002IN-CH000260.
XX
PA   (DNAP-) CENT DNA FINGERPRINTING & DIAGNOSTICS.
XX
PI   Nagaraju JG;
XX
DR   WPI; 2003-804317/75.
XX
PT   New set of inter-simple sequence repeats (ISSR)-PCR primers for
PT   genotyping eukaryotes, useful for genotyping diverse genomes of plant and
PT   animal systems.
XX
PS   Claim 1; SEQ ID NO 34; 60pp; English.
XX
CC   The invention relates to a novel set of inter-simple sequence repeats
CC   (ISSR)-PCR primers for genotyping eukaryotes. The primers of the
CC   invention may be useful for genotyping diverse genomes of plant and
CC   animal systems, in particular for distinguishing Basmati rice varieties
CC   from non-Basmati rice varieties and traditional Basmati rice varieties
CC   from evolved Basmati rice varieties. The current sequence is that of the
CC   3' anchored (ISSR)-PCR primer of the invention.
XX
SQ   Sequence 23 BP; 10 A; 10 C; 2 G; 1 T; 0 U; 0 Other;
      Query Match      0.4%; Score 16.6; DB 1; Length 23;
      Best Local Similarity 82.6%; Pred. No. 1.2e+03;
      Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

XX
QY   2309 GCTTTGGTCTGTGTGTGTGTG 2331
      ||||| ||||| ||||| |||||
DB   23 GCTGTGCATTGTGTGTGTGTG 1

RESULT 859
ADD55614/c
ID   ADD55614 standard; DNA; 23 BP.
XX
AC   ADD55614;
XX
DT   15-JAN-2004 (first entry)
XX
DE   Hepatitis C virus E1/E2 protein-related PCR primer #11.
XX
KW   Hepatitis C virus; HCV; vaccine; liver disease; E1 protein; E2 protein;
XX   liver fibrosis; ss; PCR; primer.
XX
OS   Hepatitis C virus.
XX
PN   WO2003051912-A2.
XX
PD   26-JUN-2003.
XX
PF   18-DEC-2002; 2002WO-EP014480.
XX

ADD69476/c
ID   ADD69476 standard; DNA; 23 BP.
XX
AC   ADD69476;
XX
DT   15-JAN-2004 (first entry)
XX
DE   3' anchored (ISSR)-PCR primer - SEQ ID 34.
XX
KW   inter-simple sequence repeat; ISSR; SSR; PCR; primer; genotyping; plant;
XX   animal; Basmati rice; ss.
XX
OS   Synthetic.
XX
PN   WO2003085133-A2.
XX
PD   16-OCT-2003.
XX
PF   09-JAN-2003; 2003WO-IB000041.
XX
PR   08-APR-2002; 2002IN-CH000260.
XX
PA   (DNAP-) CENT DNA FINGERPRINTING & DIAGNOSTICS.
XX
PI   Nagaraju JG;
XX
DR   WPI; 2003-804317/75.
XX
PT   New set of inter-simple sequence repeats (ISSR)-PCR primers for
PT   genotyping eukaryotes, useful for genotyping diverse genomes of plant and
PT   animal systems.
XX
PS   Claim 1; SEQ ID NO 34; 60pp; English.
XX
CC   The invention relates to a novel set of inter-simple sequence repeats
CC   (ISSR)-PCR primers for genotyping eukaryotes. The primers of the
CC   invention may be useful for genotyping diverse genomes of plant and
CC   animal systems, in particular for distinguishing Basmati rice varieties
CC   from non-Basmati rice varieties and traditional Basmati rice varieties
CC   from evolved Basmati rice varieties. The current sequence is that of the
CC   3' anchored (ISSR)-PCR primer of the invention.
XX
SQ   Sequence 23 BP; 10 A; 10 C; 2 G; 1 T; 0 U; 0 Other;
      Query Match      0.4%; Score 16.6; DB 1; Length 23;
      Best Local Similarity 82.6%; Pred. No. 1.2e+03;
      Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

XX
QY   2309 GCTTTGGTCTGTGTGTGTGTG 2331
      ||||| ||||| ||||| |||||
DB   23 GCTGTGCATTGTGTGTGTGTG 1

RESULT 859
ADD55614/c
ID   ADD55614 standard; DNA; 23 BP.
XX
AC   ADD55614;
XX
DT   15-JAN-2004 (first entry)
XX
DE   Hepatitis C virus E1/E2 protein-related PCR primer #11.
XX
KW   Hepatitis C virus; HCV; vaccine; liver disease; E1 protein; E2 protein;
XX   liver fibrosis; ss; PCR; primer.
XX
OS   Hepatitis C virus.
XX
PN   WO2003051912-A2.
XX
PD   26-JUN-2003.
XX
PF   18-DEC-2002; 2002WO-EP014480.
XX

18-DEC-2001; 2001US-00020510.
16-OCT-2002; 2002US-0418358P.
(INNO-) INNOGENETICS NV.
Maertens G, Depla E, Bosman F;
WPI; 2003-541632/51.
New hepatitis C virus (HCV) vaccine composition, useful for reducing
liver disease, e.g., liver fibrosis in a chronic HCV-infected mammal.
Example 11; SEQ ID NO 106; 271pp; English.
The invention comprises an Hepatitis C virus (HCV) vaccine for reducing
liver disease. The vaccine of the invention comprises an HCV E1 or E2
protein as an antigen. The HCV vaccine is useful for reducing liver
disease (e.g. liver fibrosis) in a chronic HCV-infected mammal. The
present DNA sequence represents a PCR primer that was used in the
exemplification of the invention.
Sequence 23 BP; 2 A; 8 C; 9 G; 4 T; 0 U; 0 Other;
Query Match      0.4%; Score 16.6; DB 1; Length 23;
Best Local Similarity 82.6%; Pred. No. 1.2e+03;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY   2164 GCCCACCCAGAGTGGGGCTC 2186
      ||||| ||||| ||||| |||||
DB   23 GCGCTACCCAGCAGCGGAGCTC 1

RESULT 860
ADN35526
ID   ADN35526 standard; DNA; 23 BP.
XX
AC   ADN35526;
XX
DT   01-JUL-2004 (first entry)
XX
DE   Human NSCLC gene semi-quantitative PCR primer forward primer #103.
XX
KW   ss; primer; cytostatic; gene therapy; vaccine;
KW   non-small cell lung cancer; NSCLC; diagnosis; cancer; URLC1.
XX
OS   Homo sapiens.
XX
PN   WO2004031413-A2.
XX
PD   15-APR-2004.
XX
PF   22-SEP-2003; 2003WO-JP012072.
XX
PR   30-SEP-2002; 2002US-0414673P.
PR   28-FEB-2003; 2003US-0451374P.
PR   28-APR-2003; 2003US-0466100P.
XX
PA   (ONCO-) ONCOTHERAPY SCI INC.
PA   (UYTY ) UNIV TOKYO.
XX
PI   Nakamura Y, Daigo Y, Nakatsuru S;
XX
WPI; 2004-330206/30.
Diagnosing, preventing and treating non-small cell lung cancer (NSCLC)
comprises determining an expression level of an NSCLC-associated gene in
a sample.
Disclosure; SEQ ID NO 207; 394pp; English.
The invention relates to a method of diagnosing non-small cell lung
cancer (NSCLC) or a predisposition to developing NSCLC in a subject by
```

CC determining the expression level of a NSCLC-associated gene in a  
 CC biological sample derived from the subject, where an increase or decrease  
 CC of the level compared to a normal control level of the gene indicates  
 CC that the subject suffers from or is at risk of developing NSCLC. The  
 CC method is useful in diagnosing NSCLC or a predisposition to developing  
 CC NSCLC in a subject. The compound, polynucleotide and the encoded  
 CC polypeptide and composition are useful in treating or preventing NSCLC.  
 CC This sequence corresponds to a primer for semi-quantitative PCR  
 CC amplification of genes that are differentially expressed in NSCLC cells.  
 XX  
 SQ Sequence 23 BP; 6 A; 4 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;  
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;  
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2972 AGCAGAGGACCGGGTTCCTT 2994

Db 1 AGCAGAGGATCAGAGTTCCTT 23

RESULT 861  
 ADP71196/c  
 ID ADP71196 standard; DNA; 23 BP.

AC ADP71196;

DT 23-SEP-2004 (first entry)

XX HCV E1 HCC110A glycosylation site 3 mutagenic primer OVR 3.

XX Hepatitis C virus; HCV; E1 glycoprotein; E2 glycoprotein; HCV infection;  
 KW liver disease; liver fibrosis; ss; serum alanine aminotransferase level;  
 KW steatosis; anti-E2 immunoreactivity; PCR; primer.

OS Hepatitis C virus.

OS Synthetic.

XX US2004126395-A1.

XX 01-JUL-2004.

XX 18-DEC-2002; 2002US-00321798.

XX 18-DEC-2001; 2001US-0453708P.

PR 16-OCT-2002; 2002US-0418358P.

XX (MAER/) MAERTENS G.

PA (DEPL/) DEPLA E.

PA (BOSM/) BOSMAN F.

XX Maertens G, Depla E, Bosman F;

XX WPI; 2004-499089/47.

XX Use of hepatitis C virus (HCV) vaccine composition for reducing liver  
 PT disease, serum alanine aminotransferase levels, steatosis, or anti-E2  
 PT immunoreactivity in the liver of a chronic HCV-infected mammal.

XX Example 8; SEQ ID NO 106; 176pp; English.

XX The invention relates to the use of a hepatitis C virus (HCV) vaccine  
 CC composition for reducing liver disease (such as liver fibrosis or its  
 CC progression), serum alanine aminotransferase (ALT) levels, steatosis, or  
 CC anti-E2 immunoreactivity in the liver of a chronic HCV-infected mammal,  
 CC or for treating a chronic HCV-infected mammal. The liver disease is  
 CC reduced by at least 1-2 points according to the overall Ishak score in  
 CC the HCV-infected mammal. Also included are a method for predicting  
 CC changes in liver disease in a chronic HCV-infected mammal, a therapeutic  
 CC HCV vaccine composition (comprising at least one purified or a  
 CC combination of at least 2 HCV single or specific oligomeric recombinant  
 CC envelope protein selected from an E1 or E2 protein, a part of E1 and E2  
 CC proteins, an E1/E2 protein complex formed from purified HCV single or

CC specific oligomeric recombinant E1 or E2 proteins or its parts and  
 CC optionally a pharmaceutical adjuvant), a composition (comprising at least  
 CC one E1 or E2 peptide, and optionally, a pharmaceutical adjuvant), an  
 CC immunogenic HCV composition (or HCV vaccine composition) comprising a  
 CC recombinant virus allowing expression of at least one HCV recombinant  
 CC envelope protein (selected from an E1 protein and/or an E2 protein, and  
 CC their parts, and optionally, a pharmaceutical adjuvant) and an HCV  
 CC vaccine composition (comprising a recombinant virus allowing expression  
 CC of at least one HCV recombinant envelope protein chosen from an E1  
 CC protein and/or an E2 protein, and parts of the E1 and E2 proteins and,  
 CC optionally, a pharmaceutical adjuvant. The HCV vaccine composition is  
 CC useful for reducing liver disease (such as liver fibrosis or its  
 CC progression), serum ALT levels, steatosis, or anti-E2 immunoreactivity in  
 CC the liver in a chronic HCV-infected mammal, or for treating a chronic HCV  
 CC infected mammal, particularly human. The HCV E1 proteins are useful for  
 CC in vitro monitoring HCV disease or prognosing the response to treatment  
 CC of patients suffering from HCV infection. The present sequence is a PCR  
 CC primer used in the production of Glycosylation site-deleted mutants of  
 CC the HCV E1 protein.  
 XX  
 SQ Sequence 23 BP; 2 A; 8 C; 9 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 23;  
 Best Local Similarity 82.6%; Pred. No. 1.2e+03;  
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2164 GCCCACCACGACGAGTGGGGCTC 2186

Db 23 GCGCTACCCAGCAGCGGGAGCTC 1

RESULT 862

AAAL45613/c

ID AAAL45613 standard; DNA; 24 BP.

XX AAAL45613;

DT 21-JUN-2002 (first entry)

XX ATP dependent membrane conjugated zinc proteinase 10-45 PCR primer #2.

XX Human; ATP dependent membrane conjugated zinc proteinase 10.45; enzyme;  
 KW development disturbance; lipid metabolism disease; gene therapy; PCR;  
 KW primer; ss.

XX Homo sapiens.

XX CN1327066-A.

PD 19-DEC-2001.

XX 05-JUN-2000; 2000CN-00116334.

XX 05-JUN-2000; 2000CN-00116334.

XX (BODE-) BODE GENE DEV CO LTD SHANGHAI.

XX Mao Y, Xie Y;

XX WPI; 2002-206994/27.

XX New polypeptide-human ATP dependent membrane conjugated zinc proteinase  
 PT 10.45 and polynucleotide for encoding such polypeptide.

XX Example 2; Page 17(Disclosure); 34pp; Chinese.

XX The present invention provides the protein and coding sequences of human  
 CC ATP dependent membrane conjugated zinc proteinase 10.45. The sequences  
 CC can be used in the treatment of developmental disturbances and lipid  
 CC metabolism disease. The present sequence is a PCR primer for the coding  
 CC sequence of the invention

XX Sequence 24 BP; 9 A; 3 C; 1 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.6; DB 1; Length 24;  
Best Local Similarity 82.6%; Pred. No. 1.3e+03;  
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATAC 2846  
DB 24 ATATATATAAATATGTATATGAC 2

RESULT 863  
AAQ33786  
ID AAQ33786 standard; DNA; 18 BP.  
XX AC AAQ33786;  
XX 25-MAR-2003 (revised)  
DT 02-FEB-1993 (first entry)  
XX Microsatellite sequence from clone TGLA189.  
DE PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;  
KW genetic mapping; traits; amplification; ss.  
KW Bos taurus.  
OS  
XX WO9213102-A1.  
PN 06-AUG-1992.  
XX 15-JAN-1992; 92WO-US000340.  
PF 15-JAN-1991; 91US-00642342.  
PR (GENM-) GENMARK.  
XX Georges M, Massey JM;  
PI WPI; 1992-284684/34.  
DR Polymorphic bovine DNA markers - used in genetic identification, gene  
PT mapping, and selective breeding.  
XX Table 7; Page 244; 517pp; English.  
XX The sequence is that of a bovine microsatellite sequence obt'd. by  
CC screening a library of bovine WboI DNA fragments of between 250 and 500  
CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50  
CC clones cross-hybridised. Assuming independent distribution of  
CC microsatellites and WboI sites, the frequency of (TC)n >9 microsatellites  
CC in the bovine genome is estimated at >100, 000. The sequence information  
CC for ca. 230 such bovine microsatellites is summarised in the  
CC specification and indexed herein (see below). The sequences upstream and  
CC downstream of the microsatellite sequence were used to generate the  
CC required PCR primers for in vitro amplification of the corresp.  
CC microsatellite (using the program OPTIPRIM). The microsatellites may be  
CC used to identify individuals, for parentage testing, and in the genetic  
CC mapping of economic trait loci, or genes involved in the determination of  
CC economically important traits esp. in cattle, to allow selective  
CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN  
CC field.)  
XX Sequence 18 BP; 1 A; 0 C; 9 G; 8 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GTGTGTGTGTGTGTGTGTGTGTGTGTGT 2342  
DB 1 GTGTGTGTGTGTGTGTGTGTGTGTGTGT 18

RESULT 864  
AAV21967  
ID AAV21967 standard; DNA; 18 BP.  
XX AC AAV21967;  
XX 14-JUL-1998 (first entry)  
DT Nuclease resistant antisense oligo NBT 140 targeted against (AT)9.  
XX Nuclease resistant; bacterial infection; antibiotic; target;  
DE veterinary medicine; treatment; human; industrial process;  
KW bacterial control; ss.  
KW Synthetic.  
XX OS  
XX WO9803533-A1.  
PN 29-JAN-1998.  
XX 23-JUL-1997; 97WO-US012961.  
PF 24-JUL-1996; 96US-00685575.  
PR (OLIG-) OLIGOS ETC & OLIGOS THERAPEUTICS INC.  
XX Arrow A, Dale RMK, Thompson TL;  
PI WPI; 1998-120687/11.  
DR Treating bacterial infections in humans or animals with  
XX oligo:nucleotide(s) - resistant to nuclease and targetted to bacterial  
PT nucleic acid or proteins, also conjugates of these oligo:nucleotide(s)  
PT with antibiotics.  
XX Claim 49; Page 87; 163pp; English.  
XX This antisense oligonucleotide is nuclease resistant and can be used in  
CC the treatment of animals, including humans, having a bacterial infection.  
CC The treatment comprises administration of such nuclease resistant  
CC oligonucleotides targeted to a nucleic acid or protein of the bacterium,  
CC and formulated with a carrier. A compound comprising this nuclease  
CC resistant oligonucleotide can be covalently linked to an antibiotic. The  
CC method is used to treat infections by a wide variety of Gram-positive and  
CC Gram-negative, or acid-fast, bacteria, in human and veterinary medicine.  
CC The methods are particularly used in immuno-compromised individuals (e.g.  
CC patients with acquired immunodeficiency syndrome or those receiving  
CC chemotherapy or radiation therapy), optionally in combination with, or  
CC fused to, antiviral or other antimicrobial oligonucleotides. Apart from  
CC therapeutic use, the oligonucleotides can be used to control bacteria in  
CC laboratory cultures, foods, beverages and industrial processes. The  
CC oligonucleotides are specific for bacteria, without affecting metabolism  
CC in mammalian cells. They may also activate RNase H and have a general,  
CC non-specific immune-stimulating effect. The oligonucleotides can be  
CC administered orally, intranasally, rectally, topically or by injection,  
CC optionally coupled to an agent (e.g. carbohydrate or polyamine) that  
CC enhances cellular uptake  
XX Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATATAT 2841  
DB 1 ATATATATATATATATATATAT 18

RESULT 865  
AAV21967/c  
ID AAV21967 standard; DNA; 18 BP.  
XX

AAV21967;  
 14-JUL-1998 (first entry)  
 Nuclease resistant antisense oligo NBT 140 targeted against (AT)9.  
 Nuclease resistant; bacterial infection; antibiotic; target;  
 veterinary medicine; treatment; human; industrial process;  
 bacterial control; ss.  
 Synthetic.  
 WO9803533-A1.  
 29-JAN-1998.  
 23-JUL-1997; 97WO-US012961.  
 24-JUL-1996; 96US-00685575.  
 (OLIG-) OLIGOS ETC & OLIGOS THERAPEUTICS INC.  
 Arrow A, Dale RMK, Thompson TL;  
 WPI; 1998-120687/11.  
 Treating bacterial infections in humans or animals with  
 oligo:nucleotide(s) - resistant to nuclease and targetted to bacterial  
 nucleic acid or proteins, also conjugates of these oligo:nucleotide(s)  
 with antibiotics.  
 Claim 49; Page 87; 163pp; English.  
 This antisense oligonucleotide is nuclease resistant and can be used in  
 the treatment of animals, including humans, having a bacterial infection.  
 The treatment comprises administration of such nuclease resistant  
 oligonucleotides, targeted to a nucleic acid or protein of the bacterium,  
 and formulated with a carrier. A compound comprising this nuclease  
 resistant oligonucleotide can be covalently linked to an antibiotic. The  
 method is used to treat infections by a wide variety of Gram-positive and  
 Gram-negative, or acid-fast, bacteria, in human and veterinary medicine.  
 The methods are particularly used in immuno-compromised individuals (e.g.  
 patients with acquired immunodeficiency syndrome or those receiving  
 chemotherapy or radiation therapy), optionally in combination with, or  
 fused to, antiviral or other antimicrobial oligonucleotides. Apart from  
 therapeutic use, the oligonucleotides can be used to control bacteria in  
 laboratory cultures, foods, beverages and industrial processes. The  
 oligonucleotides are specific for bacteria, without affecting metabolism  
 in mammalian cells. They may also activate RNase H and have a general,  
 non-specific immune-stimulating effect. The oligonucleotides can be  
 administered orally, intranasally, rectally, topically or by injection,  
 optionally coupled to an agent (e.g. carbohydrate or polyamine) that  
 enhances cellular uptake  
 Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.4; DB 1; Length 18;  
 Best Local Similarity 94.4%; Pred. No. 1e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 2824 ATATATACATATATATAT 2841  
 18 ATATATATATATATAT 1  
 Db  
 RESULT 866  
 AAX19941  
 ID AAX19941 standard; DNA; 18 BP.  
 AC AAX19941;  
 14-JUN-1999 (first entry)  
 Primer SEQ ID NO:1 from JP11075880.  
 Primer; oligonucleotide; labelling; detection; self-priming; PCR; ss.  
 Synthetic.  
 JP11075880-A.  
 23-MAR-1999.  
 10-JUL-1998; 98JP-00195719.  
 14-JUL-1997; 97JP-00205378.  
 (KAGA ) ZH KAGAKU & KESSEI RYOHO KENKYUSHO.  
 WPI; 1999-257710/22.  
 Labelling of an oligonucleotide - useful for detecting genes.  
 Example 1; Page 7; 10pp; Japanese.  
 A method has been developed for labelling an oligonucleotide having a  
 repeated sequence of (XY)n (where X and Y consists of a combination of  
 adenine and thymine or uracil or guanine and cytosine, and n is an  
 integer of 1 or more ) at the 3'-terminal side in which the repeated  
 sequence is added and extended using a labelled body of the nucleotide  
 constituting the repeated sequence and a DNA polymerase lacking in 5' to  
 3' exonuclease activity. The method can be used for detecting a gene. The  
 method can detect a gene in a sensitivity up to ten times higher than  
 prior art methods. The present sequence represents a primer used in an  
 example from the present invention  
 Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.4; DB 1; Length 18;  
 Best Local Similarity 94.4%; Pred. No. 1e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 2823 TATATATACATATATATA 2840  
 1 TATATATATATATATA 18  
 Db  
 RESULT 867  
 AAX19941/C  
 ID AAX19941 standard; DNA; 18 BP.  
 AC AAX19941;  
 14-JUN-1999 (first entry)  
 Primer SEQ ID NO:1 from JP11075880.  
 Primer; oligonucleotide; labelling; detection; self-priming; PCR; ss.  
 Synthetic.  
 JP11075880-A.  
 23-MAR-1999.  
 10-JUL-1998; 98JP-00195719.  
 14-JUL-1997; 97JP-00205378.  
 (KAGA ) ZH KAGAKU & KESSEI RYOHO KENKYUSHO.  
 WPI; 1999-257710/22.  
 Labelling of an oligonucleotide - useful for detecting genes.  
 Example 1; Page 7; 10pp; Japanese.

DE Primer SEQ ID NO:1 from JP11075880.  
 XX Primer; oligonucleotide; labelling; detection; self-priming; PCR; ss.  
 KW Synthetic.  
 OS JP11075880-A.  
 XX 23-MAR-1999.  
 XX 10-JUL-1998; 98JP-00195719.  
 XX 14-JUL-1997; 97JP-00205378.  
 XX (KAGA ) ZH KAGAKU & KESSEI RYOHO KENKYUSHO.  
 XX WPI; 1999-257710/22.  
 XX Labelling of an oligonucleotide - useful for detecting genes.  
 XX Example 1; Page 7; 10pp; Japanese.  
 CC A method has been developed for labelling an oligonucleotide having a  
 repeated sequence of (XY)n (where X and Y consists of a combination of  
 adenine and thymine or uracil or guanine and cytosine, and n is an  
 integer of 1 or more ) at the 3'-terminal side in which the repeated  
 sequence is added and extended using a labelled body of the nucleotide  
 constituting the repeated sequence and a DNA polymerase lacking in 5' to  
 3' exonuclease activity. The method can be used for detecting a gene. The  
 method can detect a gene in a sensitivity up to ten times higher than  
 prior art methods. The present sequence represents a primer used in an  
 example from the present invention  
 Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.4; DB 1; Length 18;  
 Best Local Similarity 94.4%; Pred. No. 1e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 2823 TATATATACATATATATA 2840  
 1 TATATATATATATATA 18  
 Db  
 RESULT 867  
 AAX19941/C  
 ID AAX19941 standard; DNA; 18 BP.  
 AC AAX19941;  
 14-JUN-1999 (first entry)  
 Primer SEQ ID NO:1 from JP11075880.  
 Primer; oligonucleotide; labelling; detection; self-priming; PCR; ss.  
 Synthetic.  
 OS JP11075880-A.  
 XX 23-MAR-1999.  
 XX 10-JUL-1998; 98JP-00195719.  
 XX 14-JUL-1997; 97JP-00205378.  
 XX (KAGA ) ZH KAGAKU & KESSEI RYOHO KENKYUSHO.  
 XX WPI; 1999-257710/22.  
 XX Labelling of an oligonucleotide - useful for detecting genes.  
 XX Example 1; Page 7; 10pp; Japanese.



XX A method has been developed for labelling an oligonucleotide having a  
 CC repeated sequence of (XY)<sub>n</sub> (where X and Y consists of a combination of  
 CC adenine and thymine or uracil or guanine and cytosine, and n is an  
 CC integer of 1 or more ) at the 3'-terminal side in which the repeated  
 CC sequence is added and extended using a labelled body of the nucleotide  
 CC constituting the repeated sequence and a DNA polymerase lacking in 5' to  
 CC 3' exonuclease activity. The method can be used for detecting a gene. The  
 CC method can detect a gene in a sensitivity up to ten times higher than  
 CC prior art methods. The present sequence represents a primer used in an  
 CC example from the present invention

XX Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;  
 SQ Query Match 0.4%; Score 16.4; DB 1; Length 18;  
 Best Local Similarity 94.4%; Pred. No. 1e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2823 TATATATACATATATATA 2840  
 Db 18 TATATATATATATATA 1

RESULT 868  
 AAX77484/C  
 ID AAX77484 standard; DNA; 18 BP.  
 AC AAX77484;  
 DT 05-AUG-1999 (first entry)  
 DE US5912147 primer 28.  
 KW Primer; quantitation; genetic instability; tumour cell; detection;  
 KW neoplastic transformation; carcinogenesis; ss.  
 KW Synthetic.  
 OS US5912147-A.  
 PN 15-JUN-1999.  
 PD 22-OCT-1996; 96US-00734973.  
 PF 22-OCT-1996; 96US-00734973.  
 PR (HEAL-) HEALTH RES INC.  
 PA Anderson G, Stoler D, Basik M;  
 PI WPI; 1999-357197/30.  
 DR Quantitating genetic instability.  
 XX Claim 4; Col 27-28; 27pp; English.

XX This invention describes a novel method for quantitating genetic  
 CC instability independent of microsatellite alterations by treating a  
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA  
 CC from normal cells. The method involves the cells from the same individual  
 CC with oligonucleotide primers selected from (i) a nucleotide sequence  
 CC (CG)<sub>n</sub>RG, where R is a purine selected from adenine and guanine and x = 3-  
 CC 7, (ii) a nucleotide sequence (CG)<sub>n</sub>XY, where R is as in (i) and Y is a  
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)  
 CC a nucleotide sequence (CG)<sub>n</sub>XRR, where R is as in (i) and x = 3-7, (iv) a  
 CC nucleotide sequence (CG)<sub>n</sub>XY, where Y is a pyrimidine selected from  
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence  
 CC (CA)<sub>n</sub>RG, where R is a purine selected from adenine and guanine and x = 6-  
 CC 16, (vi) a nucleotide sequence (CA)<sub>n</sub>XY, where R is a purine selected  
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,  
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)<sub>n</sub>XRR,  
 CC where R is a purine selected from adenine and guanine and x = 6-16,  
 CC (viii) a nucleotide sequence (CA)<sub>n</sub>XY, where Y is a pyrimidine selected  
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
 CC of the primers. The method is useful for detecting genomic instability  
 CC which are commonly associated with the various stages of neoplastic  
 CC transformation and carcinogenesis. The method is rapid and simple

CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
 CC of the primers. The method is useful for detecting genomic instability  
 CC which are commonly associated with the various stages of neoplastic  
 CC transformation and carcinogenesis. The method is rapid and simple

XX Sequence 18 BP; 10 A; 8 C; 0 G; 0 T; 0 U; 0 Other;  
 SQ Query Match 0.4%; Score 16.4; DB 1; Length 18;  
 Best Local Similarity 94.4%; Pred. No. 1e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2316 TCTGTGTGTGTGTGTGTG 2333  
 Db 18 TTTGTGTGTGTGTGTGTG 1

RESULT 869  
 AAX77457/C  
 ID AAX77457 standard; DNA; 18 BP.  
 AC AAX77457;  
 DT 05-AUG-1999 (first entry)  
 DE US5912147 primer 1.  
 KW Primer; quantitation; genetic instability; tumour cell; detection;  
 KW neoplastic transformation; carcinogenesis; ss.  
 KW Synthetic.  
 OS US5912147-A.  
 PN 15-JUN-1999.  
 PD 22-OCT-1996; 96US-00734973.  
 PF 22-OCT-1996; 96US-00734973.  
 PR (HEAL-) HEALTH RES INC.  
 PA Anderson G, Stoler D, Basik M;  
 PI WPI; 1999-357197/30.  
 DR Quantitating genetic instability.  
 XX Claim 4; Col 15-16; 27pp; English.

XX This invention describes a novel method for quantitating genetic  
 CC instability independent of microsatellite alterations by treating a  
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA  
 CC from normal cells. The method involves the cells from the same individual  
 CC with oligonucleotide primers selected from (i) a nucleotide sequence  
 CC (CG)<sub>n</sub>RG, where R is a purine selected from adenine and guanine and x = 3-  
 CC 7, (ii) a nucleotide sequence (CG)<sub>n</sub>XY, where R is as in (i) and Y is a  
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7, (iii)  
 CC a nucleotide sequence (CG)<sub>n</sub>XRR, where R is as in (i) and x = 3-7, (iv) a  
 CC nucleotide sequence (CG)<sub>n</sub>XY, where Y is a pyrimidine selected from  
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence  
 CC (CA)<sub>n</sub>RG, where R is a purine selected from adenine and guanine and x = 6-  
 CC 16, (vi) a nucleotide sequence (CA)<sub>n</sub>XY, where R is a purine selected  
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,  
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)<sub>n</sub>XRR,  
 CC where R is a purine selected from adenine and guanine and x = 6-16,  
 CC (viii) a nucleotide sequence (CA)<sub>n</sub>XY, where Y is a pyrimidine selected  
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination  
 CC of the primers. The method is useful for detecting genomic instability  
 CC which are commonly associated with the various stages of neoplastic  
 CC transformation and carcinogenesis. The method is rapid and simple

XX Sequence 18 BP; 9 A; 8 C; 1 G; 0 T; 0 U; 0 Other;

```
Query Match          0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2334 CCGTGTGCTGTGTGTGTG 2351
DB 18 CTTGTGTGTGTGTGTGTG 1

RESULT 870
AAI64450/C
ID AAI64450 standard; DNA; 18 BP.
XX
AC AAI64450;
XX
DT 23-NOV-2001 (first entry)
DE SSR motif #10.
XX
Simple Sequence Repeat; SSR; clover; microsatellite; genome mapping;
KW trait mapping; marker-assisted selection; gene selection; legume;
KW DNA profiling; breeding; ds.
XX
OS Unidentified.
XX
PN NZ509194-A.
XX
PD 25-MAY-2001.
XX
PF 03-JAN-2001; 2001NZ-00509194.
XX
PR 24-DEC-1999; 99AU-00004907.
XX
PR 28-MAR-2000; 2000AU-00006520.
XX
PA (AGRI-) AGRIC VICTORIA SERVICES PTY LTD.
XX
PI Koelliker R, Forster JW;
XX
DR WPI; 2001-431058/46.
XX
Novel simple sequence repeats in clover species useful for selection of
PT genes in legume breeding, for profiling legume species varieties and for
PT testing the purity of legume seed batches.
XX
PS Claim 6; Page 35; 52pp; English.
XX
The present invention relates to Simple Sequence Repeats (SSRs) from
CC clover species. SSRs, also called microsatellites, are based on a 1-7
CC nucleotide core element which is tandemly repeated. The SSR array is
CC embedded in complex flanking DNA. SSRs are ideal markers for genome
CC mapping, trait mapping and marker-assisted selection. The SSRs may be
CC used in methods for selecting genes in clover/ legume breeding. The SSRs
CC are also useful for DNA profiling of clover varieties and for testing the
CC purity of legume seed batches. The present sequence is a SSR motif, which
CC was used in the present invention
XX
Sequence 18 BP; 8 A; 10 C; 0 G; 0 T; 0 U; 0 Other;

Query Match          0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2328 TGTGTGCTGTGTGTGTG 2345
DB 18 TGTGTGCTGTGTGTGTG 1

RESULT 871
ABL38718
ID ABL38718 standard; DNA; 18 BP.
XX
AC ABL38718;
XX

Query Match          0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATAT 2841
DB 1 ATATATATATATATATAT 18

RESULT 872
ABL38718/C
ID ABL38718 standard; DNA; 18 BP.
XX
AC ABL38718;
XX
DT 16-APR-2002 (first entry)
DE Immunostimulatory nucleic acid SEQ ID NO: 85.
XX
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
XX
OS Synthetic.
XX
Key Location/Qualifiers
FT modified_base 1..18
FT /tag= a
FT /mod_base= OTHER
FT /note= "phosphorothioate backbone"
XX
WO200197843-A2.
XX
27-DEC-2001.
XX
22-JUN-2001; 2001WO-US020154.
XX
22-JUN-2000; 2000US-0213346P.
XX
(IOWA ) UNIV IOWA RES FOUND.
XX
Weiner G, Hartmann G;
XX
WPI; 2002-154611/20.
XX
Treating or preventing cancer, such as basal cell carcinoma, comprises
PT administering immunostimulatory nucleic acids that induce expression of
PT cell surface antigens and antibodies to a subject having or at risk of
PT developing cancer.
XX
Disclosure; Page 116; 312pp; English.
XX
The present invention relates to methods for treating or preventing
CC cancer, involving administering to a subject having or at risk of
CC developing cancer immunostimulatory nucleic acids that induce expression
CC of cell surface antigens and antibodies. The methods are useful for
CC treating or preventing cancer such as basal cell carcinoma, bladder
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,
CC breast cancer, cervical cancer, colon and rectum cancer, connective
CC tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx
CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-
CC Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
CC present sequence is an immunostimulatory oligonucleotide described in the
CC exemplification of the invention
XX
Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;

Query Match          0.4%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATAT 2841
DB 1 ATATATATATATATATAT 18

RESULT 872
ABL38718/C
ID ABL38718 standard; DNA; 18 BP.
XX
AC ABL38718;
XX
DT 16-APR-2002 (first entry)
DE Immunostimulatory nucleic acid SEQ ID NO: 85.
XX
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
```

KW angio genesis; metastasis; cytostatic; phosphorothioate backbone; ss.  
XX Synthetic.  
XX Key Location/Qualifiers  
FH modified\_base 1..18  
PT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate backbone"  
XX WO200197843-A2.  
PN 27-DEC-2001.  
XX 22-JUN-2001; 2001WO-US020154.  
XX 22-JUN-2000; 2000US-0213346P.  
XX (IOWA ) UNIV IOWA RES FOUND.  
XX Weiner G, Hartmann G;  
PI WPI; 2002-154611/20.  
XX Treating or preventing cancer, such as basal cell carcinoma, comprises  
PT administering immunostimulatory nucleic acids that induce expression of  
PT cell surface antigens and antibodies to a subject having or at risk of  
PT developing cancer.  
XX Disclosure; Page 116; 312pp; English.  
XX The present invention relates to methods for treating or preventing  
CC cancer, involving administering to a subject having or at risk of  
CC developing cancer immunostimulatory nucleic acids that induce expression  
CC of cell surface antigens and antibodies. The methods are useful for  
CC treating or preventing cancer such as basal cell carcinoma, bladder  
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,  
CC breast cancer, cervical cancer, colon and rectum cancer, connective  
CC tissue cancer, esophageal cancer, eye cancer, kidney cancer, larynx  
CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-  
CC Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian  
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin  
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The  
CC present sequence is an immunostimulatory oligonucleotide described in the  
CC exemplification of the invention  
XX  
SQ Sequence 18 BP; 9 A; 0 C; 0 G; 9 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 2824 ATATATACATATATATAT 2841  
DB 18 ATATATATATATATATAT 1  
RESULT 873  
ABX79779  
ID ABX79779 standard; cDNA; 18 BP.  
XX  
XX ABX79779;  
XX 17-APR-2003 (first entry)  
XX EST polymorphic DNA repeat polynucleotide #104.  
XX EST; expressed sequence tag; ss; polymorphic repeat; tandem repeat;  
KW polymorphic marker prediction of ubiquitous simple sequences; POMPOUS;  
KW Rep-X; human; genetic disease; drug-treatment; Machado-Joseph;  
KW Haw River syndrome; Huntington's disease; fragile-X syndrome;  
KW Friedrich's ataxia; myotonic dystrophy; hyperandrogenaemia;  
KW spinal atrophy; bulbar atrophy; spinocerebellar ataxia.

XX Homo sapiens.  
XX US6472154-B1.  
XX 29-OCT-2002.  
XX 31-DEC-1999; 99US-00475947.  
XX 31-DEC-1999; 99US-00475947.  
XX (TEXA ) UNIV TEXAS SYSTEM.  
XX Garner HR, Wren JD, Minna JD, Fondon JW;  
PI WPI; 2003-208818/20.  
XX Identifying a candidate polymorphic repeat within a coding sequence, for  
PT understanding or treating genetic disease, comprises detecting tandem  
PT repeats in a target coding sequence and scoring the repeats for  
PT polymorphic probability.  
XX Example; Col 385; 588pp; English.  
XX The invention discloses a method for identifying a candidate polymorphic  
CC repeat within a coding sequence (expressed sequence tag, EST), which  
CC comprises detecting tandem repeats in a target coding sequence, scoring  
CC the repeats for polymorphic probability and generating a dataset  
CC correlating the repeats with polymorphic probability to identify a  
CC candidate polymorphic repeat. The computational methods (polymorphic  
CC marker prediction of ubiquitous simple sequences, POMPOUS, and Rep-X) are  
CC useful for identifying and detecting candidate polymorphic repeats in  
CC human genes, which can be used to understand, treat or eliminate genetic  
CC diseases, predispositions or adverse drug-treatment reactions. Examples  
CC of diseases linked to nucleotide repeats are Machado-Joseph, Haw River  
CC syndrome, Huntington's disease, fragile-X syndrome, Friedrich's ataxia,  
CC myotonic dystrophy, hyperandrogenaemia, spinal and bulbar atrophy and  
CC spinocerebellar ataxia. The sequences presented in ABX79676-ABX80022 are  
CC the polymorphic repeats identified for a search of human ESTs  
XX  
SQ Sequence 18 BP; 8 A; 0 C; 1 G; 9 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 2822 GTATATATACATATATAT 2839  
DB 1 GTATATATATATATATAT 18  
RESULT 874  
ADH70642/C  
ID ADH70642 standard; DNA; 19 BP.  
XX  
XX ADH70642;  
XX 25-MAR-2004 (first entry)  
XX Human Vbeta gene repeat sequence #432.  
XX human; T-cell associated disease; Vbeta; autoimmune disease;  
KW degenerative nervous system disease; graft versus host disease;  
KW hypersensitivity disease; infectious disease; neoplastic disease;  
KW Addison's disease; atrophic gastritis;  
KW degenerative nervous system disease; multiple sclerosis;  
KW Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;  
KW allergy; type II hypersensitivity; Goodpasture's syndrome;  
KW type IV hypersensitivity; leprosy; infectious disease; viral infection;  
KW HIV; fungal infection; Candida; parasitic infection; schistosoma;  
KW filaria; bacterial infection; Mycobacterium; neoplastic disease;  
KW lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;  
KW breast cancer; ds.

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XX OS Homo sapiens.
XX PN US2002150891-A1.
XX PD 17-OCT-2002.
XX PF 05-MAR-1999; 99US-00263959.
XX PR 19-SEP-1994; 94US-00309335.
XX PR 19-SEP-1995; 95US-00531241.
XX PA (HOOD/) HOOD L E.
XX PA (ROWE/) ROWEN L.
XX PI Hood LE, Rowen L;
XX DR WPI; 2004-059052/06.
XX PT Kit for diagnosing and treating T-cell associated diseases e.g.
XX PT autoimmune, degenerative nervous system and infectious disease, comprises
XX PT nucleic acid primers specifically priming and allowing amplification of a
XX PT Vbeta gene.
XX PS Disclosure; SEQ ID NO 836; 164pp; English.
XX CC The invention relates to a kit for diagnosing and treating T-cell
XX CC associated diseases which comprises a panel of nucleic acid primers
XX CC specifically priming and allowing amplification of each Vbeta gene,
XX CC VbetARNA or cDNA. The kit is useful for diagnosing organ transplant
XX CC rejection and diagnosing and treating T-cell associated diseases
XX CC including autoimmune diseases, degenerative nervous system diseases,
XX CC graft versus host disease, hypersensitivity diseases, infectious diseases
XX CC and neoplastic diseases. Autoimmune diseases include Addison's disease,
XX CC atrophic gastritis. Degenerative nervous system diseases include multiple
XX CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type
XX CC I hypersensitivities such as contact with allergens that lead to
XX CC allergies, Type II hypersensitivities such as those present in
XX CC Goodpasture's syndrome and Type IV hypersensitivities such as those
XX CC manifested in leprosy. Infectious diseases include viral infections
XX CC caused by viruses such as HIV, fungal infections such as those caused by
XX CC the yeast genus Candida, parasitic infections such as those caused by
XX CC schistosomes, filaria and bacterial infections such as those caused by
XX CC Mycobacterium. Neoplastic diseases include lymphoproliferative diseases
XX CC such as leukaemias, lymphomas and cancers such as cancer of the brain,
XX CC breast. The present sequence represents a Vbeta gene repeat sequence.
XX SQ Sequence 19 BP; 10 A; 0 C; 0 G; 9 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3463 TATATATATCTATATATA 3480
DB 18 TATATATATTATATATA 1
RESULT 875
AAH91916/C
XX AAH91916 standard; DNA; 19 BP.
XX AC AAH91916;
XX DT 09-OCT-2001 (first entry)
XX DE Human inflammatory bowel disease associated polymorphic site #991.
XX KW Human; inflammatory bowel disease; Crohn's disease; ulcerative colitis;
XX KW single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;
XX KW chromosome 5q31-33; forensic test; gene therapy; ds.
XX OS Homo sapiens.
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XX Key Location/Qualifiers
FH misc_feature 10
FT /+tag= a
FT /note= "SNP, optionally T or C at this position"
XX WO200142511-A2.
XX PD 14-JUN-2001.
XX PF 11-DEC-2000; 2000WO-US033632.
XX PR 10-DEC-1999; 99US-0170257P.
XX PR 10-APR-2000; 2000US-0196046P.
XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX PA (ELLI-) ELLIPSIS BIOTHERAPEUTICS CORP.
XX PI Daly M, Hudson TJ, Lander ES, Rioux J, Siminovitch K;
XX DR WPI; 2001-367874/38.
XX PT Testing for the presence of polymorphisms associated with inflammatory
XX PT bowel disease, using a hybridization assay.
XX PS Claim 1, Page 80; 463pp; English.
XX CC The present invention describes a method for detecting the presence of
XX CC polymorphisms associated with inflammatory bowel diseases such as
XX CC ulcerative colitis and Crohn's disease. The methods can be used to detect
XX CC the presence of genetic polymorphisms associated with inflammatory bowel
XX CC disease and correlating their occurrence with disease states. They may be
XX CC used in this way for phenotypic correlations, forensics, paternity
XX CC testing, medicine and genetic analysis. The present sequence is a
XX CC polymorphic site described in the exemplification of the invention
XX SQ Sequence 19 BP; 3 A; 7 C; 5 G; 3 T; 0 U; 1 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.1e+03;
Matches 17; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 255 CAAGAAGCTGCTGGCGGTG 273
DB 19 CAAGAGGCTCTGGCGGTG 1
RESULT 876
ADE29900
XX ID ADE29900 standard; RNA; 19 BP.
XX AC ADE29900;
XX DT 29-JAN-2004 (first entry)
XX DE Mitogen activated protein kinase s1NA oligonucleotide SEQ ID NO:522.
XX KW short interfering nucleic acid; siNA; downregulation; inhibition;
XX KW mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference;
XX KW cytosolic; anorectic; antidiabetic; antiinflammatory; antiasthmatic;
XX KW immunosuppressive; antibacterial; antirheumatic; antiarthritic;
XX KW antipsoriatic; gastrointestinal; obesity; diabetes; tumour; arthritis;
XX KW inflammatory disease; asthma; septic shock; rheumatoid arthritis;
XX KW psoriasis; inflammatory bowel disease; drug screening;
XX KW genetic engineering; pharmacogenomic; gene mapping; ss.
XX OS Synthetic.
XX PN WO2003072590-A1.
XX PD 04-SEP-2003.
XX DT 28-JAN-2003; 2003WO-US002510.
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XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 09-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;
XX WPI; 2003-689980/65.
XX PT New short interfering nucleic acid, useful e.g. for treatment and
XX PT diagnosis of cancer, downregulates expression of mitogen-activated
XX PT protein kinase genes.
XX PS Example 3; SEQ ID NO 522; 164pp; English.
XX CC The present invention describes a short interfering nucleic acid (siNA)
XX CC that downregulates expression of a mitogen-activated protein kinase
XX CC (MAPK) genes by RNA interference. Also described: (1) a method for
XX CC modulating expression of MAPK genes in cells, tissue explants or
XX CC organisms by introduction of siNA; (2) kits for in vitro or in vivo
XX CC delivery of siNA; (3) conjugates and/or complexes of siNA; and (4)
XX CC vectors that express siNA and cells containing these vectors. MAPK siNAs
XX CC have cytostatic, anorectic, antidiabetic, antiinflammatory,
XX CC antiasthmatic, immunosuppressive, antibacterial, antirheumatic,
XX CC antiarthritic, antipsoriatic and gastrointestinal activities. The MAPK
XX CC siNAs can be used to modulate the expression of MAPK genes, in cells,
XX CC tissue explants or organisms, e.g. for treating obesity; diabetes types I
XX CC and II; a wide range of tumours, and inflammatory diseases (asthma,
XX CC septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel
XX CC disease). They can also be used for drug screening; diagnosis; target
XX CC identification and validation; genetic engineering; pharmacogenomics;
XX CC studying gene function and gene mapping (e.g. of single-nucleotide
XX CC polymorphisms). The present sequence represents a MAPK siNA which is used
XX CC in the exemplification of the present invention.
XX SQ Sequence 19 BP; 3 A; 5 C; 8 G; 0 T; 3 U; 0 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 2905 GGCAGGCATGGCCCTGGG 2922
Db 1 GGCAGGCAUGGCCUCGAG 18
RESULT 877
ADE29795/c
ID ADE29795 standard; RNA; 19 BP.
XX AC ADE29795;
XX DT 29-JAN-2004 (first entry)
XX DE Mitogen activated protein kinase siNA oligonucleotide SEQ ID NO:417.
XX KW short interfering nucleic acid; siNA; downregulation; inhibition;
XX KW mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference;
XX KW cytostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic;
XX KW immunosuppressive; antibacterial; antirheumatic; antiarthritic;
XX KW antipsoriatic; gastrointestinal; obesity; diabetes; tumour;
XX KW inflammatory disease; asthma; septic shock; rheumatoid arthritis;
XX KW psoriasis; inflammatory bowel disease; drug screening;
XX KW genetic engineering; pharmacogenomic; gene mapping; ss.
XX OS Synthetic.
XX

PN WO2003072590-A1.
XX PD 04-SEP-2003.
XX PF 28-JAN-2003; 2003WO-US002510.
XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 09-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PA (SIRN-) SIRNA THERAPEUTICS INC.
XX PI Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;
XX WPI; 2003-689980/65.
XX PT New short interfering nucleic acid, useful e.g. for treatment and
XX PT diagnosis of cancer, downregulates expression of mitogen-activated
XX PT protein kinase genes.
XX PS Example 3; SEQ ID NO 417; 164pp; English.
XX CC The present invention describes a short interfering nucleic acid (siNA)
XX CC that downregulates expression of a mitogen-activated protein kinase
XX CC (MAPK) genes by RNA interference. Also described: (1) a method for
XX CC modulating expression of MAPK genes in cells, tissue explants or
XX CC organisms by introduction of siNA; (2) kits for in vitro or in vivo
XX CC delivery of siNA; (3) conjugates and/or complexes of siNA; and (4)
XX CC vectors that express siNA and cells containing these vectors. MAPK siNAs
XX CC have cytostatic, anorectic, antidiabetic, antiinflammatory,
XX CC antiasthmatic, immunosuppressive, antibacterial, antirheumatic,
XX CC antiarthritic, antipsoriatic and gastrointestinal activities. The MAPK
XX CC siNAs can be used to modulate the expression of MAPK genes, in cells,
XX CC tissue explants or organisms, e.g. for treating obesity; diabetes types I
XX CC and II; a wide range of tumours, and inflammatory diseases (asthma,
XX CC septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel
XX CC disease). They can also be used for drug screening; diagnosis; target
XX CC identification and validation; genetic engineering; pharmacogenomics;
XX CC studying gene function and gene mapping (e.g. of single-nucleotide
XX CC polymorphisms). The present sequence represents a MAPK siNA which is used
XX CC in the exemplification of the present invention.
XX SQ Sequence 19 BP; 3 A; 8 C; 5 G; 0 T; 3 U; 0 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2905 GGCAGGCATGGCCCTGGG 2922
Db 19 GGCAGGCATGGCCCTGAG 2
RESULT 878
ADF36101
ID ADF36101 standard; RNA; 19 BP.
XX AC ADF36101;
XX DT 12-FEB-2004 (first entry)
XX DE Human VEGFR1 short interfering nucleic acid (siNA) SEQ ID NO:390.
XX KW double-stranded short interfering nucleic acid;
XX KW short interfering nucleic acid; siNA; downregulation;
XX KW vascular endothelial growth factor receptor; VEGFR; antiangiogenic;
XX KW cytostatic; antidiabetic; ophthalmological; antiarthritic; antipsoriatic;
XX KW nephrotropic; gynaecological; angiogenesis-associated condition; cancer;
XX KW diabetic retinopathy; macular degeneration; neovascular glaucoma;

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Db      |||||
19 TGTGTGTGTGGTGTG 2

RESULT 880
ADF49790/c
ID ADF49790 standard; RNA; 19 BP.
XX
XX ADF49790;
AC
XX 12-FEB-2004 (first entry)
DT
XX Human BCL2 siNA lower sequence SEQ ID NO:518.
DE
XX
XX ss; siNA; human; BCL2; short interfering nucleic acid; RNA interference;
KW cytostatic; immunosuppressive; virucide; anti-HIV; cancer;
KW autoimmune disease; viral infection; HIV.
XX
XX Homo sapiens.
OS
XX
XX WO2003070969-A2.
PN
XX
XX 28-AUG-2003.
PD
XX
XX 18-FEB-2003; 2003WO-US004908.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX
XX 11-MAR-2002; 2002US-0363124P.
PR
XX
XX 06-JUN-2002; 2002US-0386782P.
PR
XX
XX 18-JUL-2002; 2002US-0396905P.
PR
XX
XX 29-AUG-2002; 2002US-0406784P.
PR
XX
XX 05-SEP-2002; 2002US-0408378P.
PR
XX
XX 09-SEP-2002; 2002US-0409293P.
PR
XX
XX 15-JAN-2003; 2003US-0440129P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Mcswiggen J, Beigelman L;
PI
XX
XX WPI; 2003-712622/67.
DR
XX
XX New short interfering nucleic acid, useful e.g. for treatment and
PT diagnosis of cancer or autoimmune disease, downregulates expression of
PT the BCL2 gene.
XX
XX Example 3; SEQ ID NO 518; 148pp; English.
PS
XX
XX The invention relates to a novel short interfering nucleic acid (siNA)
CC that downregulates expression of the BCL2 gene by RNA interference. A
CC siNA of the invention has cytostatic, immunosuppressive, virucide, and
CC anti-HIV activity. The siNA are useful for modulation (inhibition) of
CC expression or activity of BCL2 by RNA interference. siNA are used to
CC modulate expression of BCL2 genes, in cells, tissue explants or
CC organisms, e.g. for treating cancer, autoimmune diseases and viral
CC infections (including by HIV) but also for drug screening, diagnosis,
CC target identification and validation, genetic engineering,
CC pharmacogenomics, studying gene function and gene mapping (e.g. of single
CC nucleotide polymorphisms). The sequences shown in ADF49793-ADF50143
XX represent siNA of the invention.
SQ Sequence 19 BP; 4 A; 9 C; 3 G; 0 T; 3 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1873 GTGAGGAGCTCTTCAAG 1890
Db      |||||
18 GTGAGGAGCTCTTCAAG 1

RESULT 881
ADF49376
ID ADF49376 standard; RNA; 19 BP.
XX
XX ADF49376;
AC
XX 12-FEB-2004 (first entry)
DT
XX Human BCL2 siNA lower sequence SEQ ID NO:104.
DE
XX
XX ss; siNA; human; BCL2; short interfering nucleic acid; RNA interference;
KW cytostatic; immunosuppressive; virucide; anti-HIV; cancer;
KW autoimmune disease; viral infection; HIV.
XX
XX Homo sapiens.
OS
XX
XX WO2003070969-A2.
PN
XX
XX 28-AUG-2003.
PD
XX
XX 18-FEB-2003; 2003WO-US004908.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX
XX 11-MAR-2002; 2002US-0363124P.
PR
XX
XX 06-JUN-2002; 2002US-0386782P.
PR
XX
XX 18-JUL-2002; 2002US-0396905P.
PR
XX
XX 29-AUG-2002; 2002US-0406784P.
PR
XX
XX 05-SEP-2002; 2002US-0408378P.
PR
XX
XX 09-SEP-2002; 2002US-0409293P.
PR
XX
XX 15-JAN-2003; 2003US-0440129P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Mcswiggen J, Beigelman L;
PI
XX
XX WPI; 2003-712622/67.
DR
XX
XX New short interfering nucleic acid, useful e.g. for treatment and
PT diagnosis of cancer or autoimmune disease, downregulates expression of
PT the BCL2 gene.
XX
XX Example 3; SEQ ID NO 104; 148pp; English.
PS
XX
XX The invention relates to a novel short interfering nucleic acid (siNA)
CC that downregulates expression of the BCL2 gene by RNA interference. A
CC siNA of the invention has cytostatic, immunosuppressive, virucide, and
CC anti-HIV activity. The siNA are useful for modulation (inhibition) of
CC expression or activity of BCL2 by RNA interference. siNA are used to
CC modulate expression of BCL2 genes, in cells, tissue explants or
CC organisms, e.g. for treating cancer, autoimmune diseases and viral
CC infections (including by HIV) but also for drug screening, diagnosis,
CC target identification and validation, genetic engineering,
CC pharmacogenomics, studying gene function and gene mapping (e.g. of single
CC nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143
XX represent siNA of the invention.
SQ Sequence 19 BP; 3 A; 3 C; 9 G; 0 T; 4 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 19;
Best Local Similarity 72.2%; Pred. No. 1.1e+03;
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1873 GTGAGGAGCTCTTCAAG 1890
Db      |||||
2 GUGGAGGAGCUCUACAG 19

RESULT 882
AAT41101
ID AAT41101 standard; DNA; 20 BP.
XX
XX AAT41101;
AC
XX
XX 03-DEC-1996 (first entry)
DT
XX
```



<div>DE XX KW KW KW KW XX Human gene signature HUMGS01562-derived sense primer.  Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; primer; PCR; amplification; polymerase chain reaction; ss.</div>	<div>XX OS Synthetic. WO9514772-A1. PN WO9514772-A1. XX 01-JUN-1995. PD 11-NOV-1994; 94WO-JP001916. PF 12-NOV-1993; 93JP-00355504. PR (MATSU) MATSUBARA K. PA (OKUBO/) OKUBO K. PI Matsubara K, Okubo K; PP WFI; 1995-206931/27. DR Single-stranded DNA for identifying gene signatures - isolated from 3'- PT directed human cDNA library that reflects relative abundance of corresp. PT mRNA in specific human tissues. XX Example 7; Fig 7; 2245pp; Japanese. PS Primers T41001-T41382 are derived from novel human gene signature (GS) CC sequences which did not match with sequences deposited in Genbank release CC 76. The GS sequences (T19001-T26837) were obtained from 3'-directed CDNA CC libraries prepared from various human tissues; synthesis of cDNA was CC initiated from the 3'-end of mRNA by using poly(T) as the sole primer. CC Each library is constructed so as to reflect accurately the relative CC abundance of different mRNAs in the particular tissue from which it was CC derived. The appearance frequency of a given GS in a cDNA library can be CC determined (esp. using primers and probes derived from the GS sequences) CC as a means of diagnosing abnormal cell function or for recognising CC different cell types. The primers T41101-2 amplify chromosome pm2619 which CC comprises the GS HUMG8001562 (T20562), located on chromosome 6</div>	<div>XX SQ Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other; Query Match            0.4%; Score 16.4; DB 1; Length 20; Best Local Similarity   94.4%; Pred. No. 1.1e+03; Matches   17; Conservative   0; Mismatches   1; Indels   0; Gaps   0;</div> <div>PY 1250 TCAGCATTTGCACAGGACC 1267 DB 1 CTCGTCTTGTCACAGGACC 18                   RESULT 883 AAT93903 ID AAT93903 standard; DNA; 20 BP. XX AC AAT93903; XX DT 03-FEB-1998 (first entry) XX OS Homo sapiens. XX DE Primer for exon 8 of endothelial nitrogen monoxide synthase gene. XX EXON 8; PCR primer; single stranded conformational polymorphism; SSCP; KW analysis; endothelial nitrogen monoxide synthase; eNOS; KW genetic screening; coronary arterial spasm; angina pectoris; ss. XX Synthetic. OS Homo sapiens. XX PN WO9718327-A1. XX FN</div>
<div>DD MAY-1997. XX 13-NOV-1996; 96WO-JP003324. XX 13-NOV-1995; 95JP-00319504. PR 28-JUN-1996; 96GP-00168761. XX (SHIO ) SHIONOGI &amp; CO LTD. XX Yasue H, Yoshimura M; PI WFI; 1997-289303/26. DR Genetic screening for diseases associated with coronary arterial spasm - PT by assessment of the occurrence of specific mutation(s) of the PT endothelial nitrogen monoxide synthase gene. XX Example 1; Page 14; 47pp; Japanese. PS The present sequence is an exon 8 primer for the polymerase chain XX reaction-single stranded conformational polymorphism (PCR-SSCP) analysis CC of the endothelial nitrogen monoxide synthase (eNOS) gene. The PCR-SSCP CC analysis was used in an example of genetic screening method for diseases CC associated with coronary arterial spasm, which comprises determining if 1 CC or more specific nucleotides in the eNOS gene have been substituted, CC specifically G894T, C774T, T(-786)C, A(-922)G and T(-1468)A. Screening CC for diseases associated with coronary spasm, e.g angina pectoris, cannot CC be easily carried out by existing methods, this method allows rapid and CC easy detection XX SQ Sequence 20 BP; 6 A; 10 C; 2 G; 2 T; 0 U; 0 Other; Query Match            0.4%; Score 16.4; DB 1; Length 20; Best Local Similarity   94.4%; Pred. No. 1.1e+03; Matches   17; Conservative   0; Mismatches   1; Indels   0; Gaps   0;</div> <div>OQ 3064 TGTTTTCCCACCCCCAACCA 3081 DB 3 TGATCCCGCACCCCCAACCA 20                   RESULT 884 AAC92592/c ID AAC92592 standard; DNA; 20 BP. XX AC AAC92592; XX DT 27-MAR-2001 (first entry) XX DE Human nucleolin phosphorothioate antisense oligonucleotide, SEQ ID NO:42. XX HU Human nucleolin; P92; C23; phosphoprotein; ribosome biogenesis; KW ribosome transport; cytokinesis; nucleogenesis; cell proliferation; KW cell growth; transcriptional repression; replication; KW signal transduction; chromatin decondensation; Ag-NOR family; KW nucleolin antibody; systemic connective tissue disease; SLE; KW systemic lupus erythematosus; KW scleroderma-like chronic graft versus host disease; KW expression inhibition; tumour formation; cancer; inflammation; KW immune disorder; phosphorothioate; antisense oligonucleotide; ss.</div>	<div>OS Homo sapiens. XX US6165786-A. XX PD 26-DEC-2000. XX PF 03-NOV-1999; 99US-00433699. XX PR 03-NOV-1999; 99US-00433699. XX PA (ISIS-) ISIS PHARM INC. XX FN</div>	

```
PI Bennett CF, Cowser LM;
XX WPI; 2001-079848/09.
XX
XX Novel antisense compound targeted to human nucleolin which specifically
PT hybridizes with and inhibits the expression of human nucleolin, useful
PT for modulating the expression of nucleolin in cells.
XX
XX Claim 14; Col 41-42; 41pp; English.
XX
XX Sequences AAC2560-C92639 represent antisense oligonucleotides targeted
CC to the human nucleolin gene, which inhibit its expression. The antisense
CC oligonucleotides were designed to target different regions of the human
CC nucleolin mRNA, and were analysed for their effect on nucleolin mRNA
CC levels by quantitative real-time PCR. Nucleolin (also known as P92 or
CC C23) is the most abundant nucleolar phosphoprotein in actively growing
CC cells. Nucleolin primarily participates in ribosome biogenesis and
CC transport of ribosomal components, being able to transiently bind to pre-
CC ribosomes in the nucleolus via a ribonucleoprotein consensus sequence.
CC However, it has also been shown to be involved in cytokinesis,
CC nucleogenesis, cell proliferation and growth, transcriptional repression,
CC replication, signal transduction, and chromatin decondensation. Nucleolin
CC is a member of the Ag-NOR (active ribosomal gene located in the nucleolar
CC organiser region) family of proteins which are markers of active
CC ribosomal genes, and whose expression is associated with the prediction
CC of tumour growth rate. The presence of antibodies against nucleolin are
CC associated with systemic connective tissue diseases such as systemic
CC lupus erythematosus (SLE) and scleroderma-like chronic graft versus host
CC disease. The oligonucleotides of the invention are useful for diagnosis,
CC prevention and treatment of conditions associated with nucleolin
CC expression, such as tumour formation, immune disorders and inflammation
XX
XX Sequence 20 BP; 4 A; 7 C; 1 G; 8 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1353 GGAGATGATGAGATGAT 1370
DB 19 GAAGATGATGAGATGAT 2
RESULT 885
ABS97835/c
ID ABS97835 standard; DNA; 20 BP.
XX
XX ABS97835;
XX
XX 23-DEC-2002 (first entry)
XX
XX Human NADPH quinone oxidoreductase 2 (NQO2) polymorphic sequence #43.
XX
XX Human; ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;
XX cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
XX adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;
XX aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
XX cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
XX epoxide hydrolase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
XX glutathione-S-transferase 12; GSTI2; histamine-N-methyl transferase;
XX HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
XX NADPH quinone oxidoreductase 2; NQO2; sulfoxtransferase thermolabile; STM;
XX UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
XX UGT2B7; UDP-glucuronosyl transferase; UGT2B15; uronase receptor; UPA;
XX multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
XX multidrug resistance associated protein 3; cancer; prostate;
XX acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR4; CHMR5;
XX altered drug metabolism; cardiovascular function; colorectal tumour;
XX central nervous system; pulmonary; immunological; SNP;
XX single nucleotide polymorphism.
XX
XX Homo sapiens.
OS
XX
```

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FN WO200257410-A2.
XX
XX 25-JUL-2002.
XX
XX 28-NOV-2001; 2001WO-US044838.
XX
XX 28-NOV-2000; 2000US-00724389.
XX
XX (DNAS-) DNA SCI LAB INC.
XX
XX Guida M, Hall J;
XX WPI; 2002-698522/75.
XX
XX Isolated nucleic acid molecules having polymorphisms in known human genes
e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers
PT for locating, identifying and characterizing the genes responsible for
PT disorder-related traits.
XX
XX Example 16; Page 131; 714pp; English.
XX
XX This invention relates to the sequence of an isolated nucleic acid
molecule comprising at least one base variation from that of a known
human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP450A2),
cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1),
aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
(ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding
inhibitor (DBI), epoxide hydrolase 2 (EPHX2), 5-lipoxygenase activating
protein (FLAP), glutathione-S-transferase 12 (GSTI2), histamine-N-methyl
transferase (HNMT), kallikrein 2 (KLK2), nicotinamide -N-methyl
sulfoxtransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
(UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
transferase (UGT2B15), uronase receptor (UPA), multidrug resistance 1
(MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
(MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic
receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
The polymorphisms in the human genes cited in the invention are useful as
genetic linkage markers for locating and characterising the genes that
are responsible for specific traits within the genome and eventually
identifying the genes responsible for a variety of disorder-related
traits as a result of their e.g., overexpression, constitutive
expression, mutation or underexpression, which may be used in diagnosing
and/or treating the disorders. The nucleic acid molecules comprising the
polymorphic sequences contained in CYP4501A1, CYP450A2, CYP45002E1,
ARNT, EPHX2, GSTI2, NNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
MDR1 and/or MDR3 are useful for screening individuals for altered drug
metabolism. The polymorphic sequences contained in CYP450A1, CYP450A2,
AHR, MDR1 and/or MDR3 may also be used to screen individuals for
susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are
used to screen for altered cardiovascular function, in COX2 for altered
susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
nervous system function, in FLAP and HNMT for altered pulmonary,
immunological or haematological function, in KLK2 for altered serine
protease activity in the prostate, in LTF for altered immunological or
haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
peripheral nervous system function. The present sequence represents a
polymorphic DNA sequence of the invention
XX
XX Sequence 20 BP; 10 A; 8 C; 0 G; 2 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2315 GTCGTGTCGTGTCGTGT 2332
DB 18 GTATGTCGTGTCGTGT 1
RESULT 886
ACC49689/c
ID ACC49689 standard; DNA; 20 BP.
```

XX  
AC ACC49689;  
XX  
DT 01-JUL-2003 (first entry)  
XX  
DE Human KSR chimeric phosphorothioate oligonucleotide SEQ ID NO:59.  
XX  
KW Human; kinase suppressor of ras-1; KSR; cytostatic; KSR inhibitor;  
KW antisense gene therapy; hyperproliferative disorder; phosphorothioate;  
KW developmental disorder; antisense oligonucleotide; ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate backbone"  
FT modified\_base 1..5  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls (2'-MOE) "  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls (2'-MOE) "  
XX  
PN WO2003025144-A2.  
XX  
PD 27-MAR-2003.  
XX  
PF 19-SEP-2002; 2002WO-US029705.  
XX  
PR 20-SEP-2001; 2001US-00961001.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Monia BP, Preier SM;  
XX  
XX WPI; 2003-363140/34.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a  
XX nucleic acid encoding KSR, useful for treating a disease/condition  
XX associated with KSR, such as hyperproliferative or developmental  
XX disorders.  
XX  
PS Claim 3; Page 75; 102pp; English.  
XX  
CC The present invention describes a compound 8-50 nucleobases in length  
CC targeted to, and which specifically hybridizes with a nucleic acid  
CC molecule encoding kinase suppressor of ras-1 (KSR), and inhibits the  
CC expression of KSR. Also described: (1) a compound 8-50 nucleobases in  
CC length that specifically hybridizes with at least an 8-nucleobase portion  
CC of an active site on a nucleic acid molecule encoding KSR; (2) a  
CC composition comprising the compound and a carrier or diluent; (3)  
CC inhibiting the expression of KSR in cells or tissues by contacting the  
CC cells or tissues with the compound so that expression of KSR is inhibited  
CC with KSR by administering to the animal a therapeutic or prophylactic  
CC amount of the compound so that expression of KSR is inhibited. The  
CC compound has cytostatic activity and can be used as a KSR inhibitor, and  
CC in antisense gene therapy. The compound, composition and methods are  
CC useful for treating a disease or condition associated with KSR, such as a  
CC hyperproliferative or developmental disorder, or a disease or condition  
CC arising from aberrant apoptosis by inhibiting the expression of KSR. They  
CC are also useful in research and diagnostics for modulating the expression  
CC of KSR. The present sequence represents a chimeric phosphorothioate  
CC antisense oligonucleotide of human KSR, which is used in an example from  
XX the present invention  
XX  
XX Sequence 20 BP; 6 A; 5 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1672 ATCGCAGACTTCGGGCTG 1689  
DB 20 ATCAGAGACTTCGGGCTG 3  
  
RESULT 887  
ACC80119/C  
ID ACC80119 standard; DNA; 20 BP.  
XX  
AC ACC80119;  
XX  
DT 01-AUG-2003 (first entry)  
XX  
DE VEGFR-2 antisense oligonucleotide #42.  
XX  
KW Human; vascular endothelial growth factor receptor-2; cytostatic;  
KW angiogenic; antiangiogenic; antiarthritic; antirheumatic; antisense;  
KW VEGFR-2; hyperproliferative disorder; cancer; rheumatoid arthritis;  
KW angiogenesis; phosphorothioate; ss.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "This oligonucleotide has a phosphorothioate  
FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',  
FT and 3' ends, which are 5 nucleotides in length. Also all  
FT cytidine residues are 5-methylcytidines"  
XX  
PN WO2003029266-A1.  
XX  
PD 10-APR-2003.  
XX  
PF 26-SEP-2002; 2002WO-US030734.  
XX  
PR 28-SEP-2001; 2001US-00967655.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Bennett CF, Watt AT;  
XX  
XX WPI; 2003-371980/35.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a  
XX nucleic acid encoding vascular endothelial growth factor receptor-2  
XX (VEGFR-2), useful for treating a disease/condition associated with VEGFR-  
XX 2, e.g. cancer.  
XX  
PS Claim 3; Page 83; 127pp; English.  
XX  
CC The present invention relates to novel antisense oligonucleotides  
CC (ACC71728-ACC71750 and ACC80101-ACC80155) targeted to Vascular  
CC Endothelial Growth Factor Receptor-2 (VEGFR-2) nucleotide sequence, and  
CC which inhibit the expression of VEGFR-2. The oligonucleotides are useful  
CC in compositions for treating a disease or condition associated with VEGFR  
CC -2, such as hyperproliferative disorder, e.g. cancer, a disease or  
CC condition involving angiogenesis, or rheumatoid arthritis  
XX  
XX Sequence 20 BP; 5 A; 8 C; 3 G; 4 T; 0 U; 0 Other;  
XX  
Query Match 0.4%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1584 GGGCATGGAGTACTTGGC 1601  
DB 19 GGGCATGGAGTCTTGGC 2

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RESULT 888
ADP75284/c
ID ADF87844 standard; DNA; 20 BP.
XX
AC ADF87844;
XX
DT 26-FEB-2004 (first entry)
XX
DE Single nucleotide polymorphism detection primer, SEQ ID NO 1427.
XX
KW human; single nucleotide polymorphism; microarray; side effect; ss;
KW primer; PCR.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN JP2003235571-A.
XX
PD 26-AUG-2003.
XX
PF 12-FEB-2002; 2002JP-00034717.
XX
PR 12-FEB-2002; 2002JP-00034717.
XX
PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
DR WPI; 2003-820454/77.
XX
PT Novel polynucleotide useful for detecting single nucleotide polymorphisms
PT in human gene.
XX
PS Claim 2; SEQ ID NO 1427; 704pp; Japanese.
XX
CC The invention relates to a novel polynucleotide isolated and purified
CC from a human gene having any one of 935 fully defined sequences as given
CC in specification, or a sequence having a base substitution. The invention
CC further relates to: an oligonucleotide containing single nucleotide
CC polymorphisms; a PCR primer set chosen from the combination of two DNA
CC fragments from any one of 1220 fully defined sequences as given in
CC specification; a labelling probe containing the SNP containing oligo; and
CC a microarray equipped with the SNP containing oligo. The isolated human
CC gene of the invention is useful for detecting the single nucleotide
CC polymorphisms in human gene. The isolated human gene is also useful for
CC diagnosis of disease and determination of side effect to a medical agent.
CC The isolated human gene is also effective in detecting single nucleotide
CC polymorphisms in a human gene. This polynucleotide sequence represents
CC one of the PCR primers used in the single nucleotide polymorphism
CC detection method of the invention.
XX
SQ Sequence 20 BP; 8 A; 8 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.le+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2327 GTGTGTCGCTGTGTGTGT 2344
DB 19 GTGTGTCGCTGTGTGTGT 2
RESULT 889
ADP75284/c
ID ADF75264 standard; DNA; 20 BP.
XX
AC ADF75264;
XX
DT 12-AUG-2004 (first entry)
XX
DE Human NRG2 gene exon A SSCP reverse primer #1.
XX
KW Human; SSCP; ss; primer; ADAM19; Endophilin 1; Endophilin 2; NRG2;
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KW ADAMTS2; a disintegrin and metalloprotease; neuroregulin 2; SNP;
KW single nucleotide polymorphism;
KW a disintegrin and metalloprotease with thrombospondin type 1 motif 2;
KW asthma; atopy; obesity; inflammatory bowel disease; respiratory disorder;
KW single-strand conformation polymorphism.
XX
OS Homo sapiens.
XX
PN WO2003031594-A2.
XX
PD 17-APR-2003.
XX
PF 11-OCT-2002; 2002WO-US032700.
XX
PR 11-OCT-2001; 2001US-0328424P.
XX
PA (GENO-) GENOME THERAPEUTICS CORP.
XX
PI Keith T, Little RD, Van Berdewegh P, Dupuis J, Del Mastro RG;
PI Allen K;
XX
DR WPI; 2003-381712/36.
XX
PT New isolated nucleic acid or alternate splice variant, useful for
PT diagnosing and treating a disintegrin and metalloprotease (ADAM) or
PT interactor gene-associated disorder, e.g. asthma, atopy, obesity or
PT inflammatory bowel disease.
XX
PS Claim 2; Page 124; 338pp; English.
XX
CC The invention relates to an isolated nucleic acid or alternate splice
CC variant comprising a nucleotide sequence containing at least one of the
CC single nucleotide polymorphisms given in the specification, a nucleotide
CC sequence having at least 15 contiguous nucleotides of them, or
CC complements of them. The genes are ADAM19 (a disintegrin and
CC metalloprotease 19, also known as gene 845), NRG2 (neuroregulin 2, also
CC known as gene 847), endophilin 1 (also known as gene 874), endophilin 2
CC (also known as gene 803) and ADAMTS2 (a disintegrin and metalloprotease
CC with thrombospondin type 1 motif 2, also known as gene 962). Also included
CC are a vector comprising the isolated nucleic acid (or alternate splice
CC variant), a host cell containing the vector, an isolated polypeptide
CC encoded by the novel nucleic acid (or alternate splice variant), an
CC antibody or antibody fragment that binds to the polypeptide,
CC pharmaceutical compositions comprising the nucleic acid or alternate
CC splice variant, vector, polypeptide or antibody, and a carrier,
CC expipient or diluent), a kit for detecting a disintegrin and
CC metalloprotease (ADAM) gene nucleotide sequence (comprising the isolated
CC nucleic acid or alternate splice variant, antibody or antibody fragment,
CC and at least one component to detect the hybridisation of the variant or
CC the binding of the antibody to an ADAM gene amino acid sequence), a kit
CC for detecting an interactor gene amino acid sequence (comprising the
CC antibody or antibody fragment, and at least one component to detect the
CC binding of the antibody to the interactor gene amino acid sequence),
CC diagnosing an ADAM or interactor gene-associated disorder or a
CC respiratory disorder in a human subject, determining an ADAM or
CC interactor gene pharmacogenetic profile in a human subject, identifying
CC an orthologue of a human ADAM or interactor gene, treating an ADAM or
CC interactor gene-associated disorder (or a respiratory disorder) by
CC administering the pharmaceutical composition, a transgenic mouse (whose
CC genome comprises an introduced null mutation in an endogenous gene that
CC is orthologous to a human ADAM gene), making a homozygous transgenic
CC knockout mouse, forming a crystal of the isolated polypeptide, a cell
CC line comprising the isolated nucleic acid or alternate splice variant, a
CC biochip comprising the isolated nucleic acid or alternate splice variant,
CC an isolated nucleic acid probe or primer comprising at least 8 contiguous
CC nucleotides of the nucleic acid, an isolated antisense nucleic acid,
CC identifying an ADAM or interactor gene ligand and an isolated nucleic
CC acid variant of Gene 803, 845, 847, 874 or 962. The nucleic acid or
CC alternate splice variants, methods, kits and antibody/antibody fragment
CC are useful for diagnosing and treating an ADAM or interactor gene-
CC associated disorder, e.g. asthma, atopy, obesity or inflammatory bowel
CC disease. The present sequence is an SSCP (single-strand conformation
CC polymorphism) primer used to analyse the above genes for the presence of
```

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CC polymorphisms.
XX Sequence 20 BP; 6 A; 2 C; 8 G; 4 T; 0 U; 0 Other;
SQ Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2632 CCACATGTCAGCACCTT 2649
DB 20 CCACTTGTCAGCACCTT 3

RESULT 890
ADK96906/c
ID ADK96906 standard; DNA; 20 BP.
XX AC ADK96906;
XX DT 06-MAY-2004 (first entry)
XX DE Primer of the invention #2626.
XX KW human; single nucleotide polymorphism; SNP; ss; primer.
XX OS Synthetic.
XX PN JP2003259875-A.
XX PD 16-SEP-2003.
XX PF 08-MAR-2002; 2002JP-00064373.
XX PR 08-MAR-2002; 2002JP-00064373.
XX PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX DR WPI; 2004-093977/10.
XX PT Novel polynucleotide useful for PCR amplification along with two DNA
PT fragment from another set of sequences, or for detecting single
PT nucleotide polymorphism in human gene.
XX PS Claim 2; SEQ ID NO 5935; 2627pp; Japanese.
XX CC The present invention relates to a polynucleotide isolated from a human
CC gene and is useful for detecting a single nucleotide polymorphism in a
CC human gene or for diagnosing of disease. The invention enables the
CC detection of a single nucleotide polymorphism in a human gene. The
CC present sequence represents a primer of the invention.
XX SQ Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 327 CTCATCTCTGCTGCTGAA 344
DB 20 CTCATCTCTGCTGCTGAA 3

RESULT 891
ADM14911/c
ID ADM14911 standard; DNA; 20 BP.
XX AC ADM14911;
XX DT 01-JUL-2004 (first entry)
XX DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1098.
XX KW chimeric; antisense oligonucleotide; phosphorothioate; human;

microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
immunomodulator; cardiant; neuroprotective; antiinflammatory;
neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
immunomodulatory; cardiovascular; gene therapy; inflammation;
Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
reperfusion injury; ophthalmic disorder; immunological disorder;
cardiovascular disorder; neurological disorder; ss.
Homo sapiens.
Synthetic.
XX Key Location/Qualifiers
XX modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "phosphorothioate linkages and all cytidine
FT residues are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
WO2004028458-A2.
08-APR-2004.
25-SEP-2003; 2003WO-US030374.
25-SEP-2002; 2002US-0413549P.
(PHAA ) PHARMACIA CORP.
Gierse JK;
WPI; 2004-305094/28.
New antisense compound, having a sequence targeted to a nucleic acid
encoding mPGES-1, useful for preparing a composition for treating e.g.,
inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
ischemia.
Claim 4; SEQ ID NO 1098; 132pp; English.
The present sequence represents a chimeric antisense oligonucleotide
targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
human mPGES-1 gene is located on chromosome 9, more specifically to
9q34.3. The present invention also describes: (1) antisense compounds,
having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
inhibits its expression; (2) a method of inhibiting the expression of
mPGES-1 in cells or tissues; and (3) a method of treating an animal
having a disease or condition associated with mPGES-1. mPGES-1 chimeric
antisense oligonucleotides and antisense compounds have cytostatic,
antidiabetic, immunomodulator, cardiant, neuroprotective,
antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
CC ophthalmological, immunomodulatory and cardiovascular activities, and can
CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
CC can be used for preparing a composition for treating a disease or
CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's
CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
CC ophthalmic, immunological, cardiovascular or neurological disorder.
XX SQ Sequence 20 BP; 8 A; 8 C; 2 G; 2 T; 0 U; 0 Other;
Query Match 0.4%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

QY 2316 TCTGTGTGTGTGTGTG 2333  
 |||||  
 Db 18 TCCGTGTGTGTGTGTG 1

RESULT 892  
 AA218180/c  
 ID AA218180 standard; DNA; 21 BP.

XX AC AA218180;  
 XX 11-OCT-1999 (first entry)  
 DE PTK 25 gene specific primer.  
 XX Genetic proximity; gene expression; cell characterisation; homeobox gene;  
 KW genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;  
 KW kinase gene; protein phosphatase; p450; steroid receptor; cadherin;  
 KW primer; ss.  
 XX Synthetic.  
 OS Homo sapiens.  
 OS WO9934016-A2.  
 PN 08-JUL-1999.  
 XX 28-DEC-1998; 98WO-IL000625.  
 XX 29-DEC-1997; 97IL-00122793.  
 PR 16-OCT-1998; 98IL-00126627.  
 XX (GENE-) GENENA LTD.  
 PA Vidar B;  
 PI WPI; 1999-419113/35.  
 DR P-PSDB; AAY14715.

XX Identifying and characterizing cells by comparing the pattern of gene  
 expression in a selected gene family.  
 XX Claim 4; Page 46; 102pp; English.  
 XX The invention provides a new method for identifying and characterising  
 CC cells. The method for determining the genetic proximity of a first cell  
 CC and a second cell comprises: (a) obtaining the first cell and the second  
 CC cell; (b) determining in the first cell and the second cell the pattern  
 CC of expression of genes in a selected gene family; and (c) calculating a  
 CC proximity index using a specified formula. The methods can be used for  
 CC characterising cells, e.g. for determining the origin of a cell, its  
 CC genetic status, whether it carries a genetic defect, or whether it is  
 CC transformed. They can be used for detecting a selected genetic defect in  
 CC an individual, e.g. a fetus. They can also be used for determining the  
 CC effect of a selected treatment on a test cell. They can also be used for  
 CC obtaining cells capable of expressing an homeobox related desired  
 CC property. The method uses reverse transcriptase polymerase chain reaction  
 CC (RT-PCR) for determining the pattern of gene expression in a selected  
 CC gene family. Sequences AA21803-218342 represent primers that can be used  
 CC in the RT-PCR reactions to determine the pattern of gene expression. The  
 CC gene family can be selected from a set of homeobox genes, kinase genes,  
 CC protein phosphatase genes, p450 enzyme genes, steroid receptor  
 CC superfamily genes or cadherin superfamily genes  
 XX Sequence 21 BP; 7 A; 8 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1801 GAGCTGTGTCCTTTGGG 1818  
 |||||  
 Db 18 GAGCTGTGTCCTTTGGG 1

QY 1801 GAGCTGTGTCCTTTGGG 1818  
 |||||  
 Db 18 GAGCTGTGTCCTTTGGG 1

RESULT 893  
 AA218186/c  
 ID AA218186 standard; DNA; 21 BP.

XX AC AA218186;  
 XX 11-OCT-1999 (first entry)  
 DE PTK 28 gene specific primer.  
 XX Genetic proximity; gene expression; cell characterisation; homeobox gene;  
 KW genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;  
 KW kinase gene; protein phosphatase; p450; steroid receptor; cadherin;  
 KW primer; ss.  
 XX Synthetic.  
 OS Homo sapiens.  
 OS WO9934016-A2.  
 PN 08-JUL-1999.  
 XX 28-DEC-1998; 98WO-IL000625.  
 XX 29-DEC-1997; 97IL-00122793.  
 PR 16-OCT-1998; 98IL-00126627.  
 XX (GENE-) GENENA LTD.  
 PA Vidar B;  
 PI WPI; 1999-419113/35.  
 DR P-PSDB; AAY14721.

XX Identifying and characterizing cells by comparing the pattern of gene  
 expression in a selected gene family.  
 XX Claim 4; Page 46; 102pp; English.  
 XX The invention provides a new method for identifying and characterising  
 CC cells. The method for determining the genetic proximity of a first cell  
 CC and a second cell comprises: (a) obtaining the first cell and the second  
 CC cell; (b) determining in the first cell and the second cell the pattern  
 CC of expression of genes in a selected gene family; and (c) calculating a  
 CC proximity index using a specified formula. The methods can be used for  
 CC characterising cells, e.g. for determining the origin of a cell, its  
 CC genetic status, whether it carries a genetic defect, or whether it is  
 CC transformed. They can be used for detecting a selected genetic defect in  
 CC an individual, e.g. a fetus. They can also be used for determining the  
 CC effect of a selected treatment on a test cell. They can also be used for  
 CC obtaining cells capable of expressing an homeobox related desired  
 CC property. The method uses reverse transcriptase polymerase chain reaction  
 CC (RT-PCR) for determining the pattern of gene expression in a selected  
 CC gene family. Sequences AA21803-218342 represent primers that can be used  
 CC in the RT-PCR reactions to determine the pattern of gene expression. The  
 CC gene family can be selected from a set of homeobox genes, kinase genes,  
 CC protein phosphatase genes, p450 enzyme genes, steroid receptor  
 CC superfamily genes or cadherin superfamily genes  
 XX Sequence 21 BP; 7 A; 8 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1801 GAGCTGTGTCCTTTGGG 1818  
 |||||  
 Db 18 GAGCTGTGTCCTTTGGG 1

QY 1801 GAGCTGTGTCCTTTGGG 1818  
 |||||  
 Db 18 GAGCTGTGTCCTTTGGG 1

RESULT 894





XX PTK 32 gene specific primer.  
 DE Genetic proximity; gene expression; cell characterisation; homeobox gene;  
 XX Genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;  
 KW kinase gene; protein phosphatase; P450; steroid receptor; cadherin;  
 KW primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 XX WO9934016-A2.  
 PN  
 XX 08-JUL-1999.  
 PD  
 XX  
 XX 28-DEC-1998; 98WO-IL000625.  
 PF  
 XX  
 XX 29-DEC-1997; 97IL-0012793.  
 PR  
 XX 16-OCT-1998; 98IL-00126627.  
 PR  
 XX (GENE-) GENENAL LTD.  
 PA  
 XX  
 XX Vider B;  
 PI  
 XX WPI; 1999-419113/35.  
 DR  
 XX P-PSDB; AAY14727.  
 DR  
 XX  
 XX Identifying and characterizing cells by comparing the pattern of gene  
 PT expression in a selected gene family.  
 PT  
 XX Claim 4; Page 47; 102pp; English.  
 PS  
 XX The invention provides a new method for identifying and characterising  
 CC cells. The method for determining the genetic proximity of a first cell  
 CC and a second cell comprises: (a) obtaining the first cell and the second  
 CC cell; (b) determining in the first cell and the second cell the pattern  
 CC of expression of genes in a selected gene family; and (c) calculating a  
 CC proximity index using a specified formula. The methods can be used for  
 CC characterising cells, e.g. for determining the origin of a cell, its  
 CC genetic status, whether it carries a genetic defect, or whether it is  
 CC transformed. They can be used for detecting a selected genetic defect in  
 CC an individual, e.g. a fetus. They can also be used for determining the  
 CC effect of a selected treatment on a test cell. They can also be used for  
 CC obtaining cells capable of expressing an homeobox related desired  
 CC property. The method uses reverse transcriptase polymerase chain reaction  
 CC (RT-PCR) for determining the pattern of gene expression in a selected  
 CC gene family. Sequences AA217803-218342 represent primers that can be used  
 CC in the RT-PCR reactions to determine the pattern of gene expression. The  
 CC gene family can be selected from a set of homeobox genes, kinase genes,  
 CC protein phosphatase genes, P450 enzyme genes, steroid receptor  
 CC superfamily genes or cadherin superfamily genes  
 XX  
 XX Sequence 21 BP; 7 A; 8 C; 4 G; 2 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.4%; Score 16.4; DB 1; Length 21;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1801 GACGTCGTGTCCTTGGG 1818  
 DB 18 GACGTCGTGTCCTTGGG 1  
 RESULT 897  
 AAC69306  
 ID AAC69306 standard; DNA; 21 BP.  
 XX  
 AC AAC69306;  
 XX  
 XX 29-JAN-2001 (first entry)  
 DT  
 XX Human ABC1 gene promoter polymorphic site, SEQ ID NO:205.  
 DE  
 XX

KW Human ABC1 cholesterol transporter; chromosome 9q31;  
 KW ATP-binding cassette; HDL deficiency disorder; high density lipoprotein;  
 KW Tangier disease; TD; familial HDL deficiency; FHA; polymorphism;  
 KW cerebrovascular disease; coronary artery disease; coronary restenosis;  
 KW cerebrovascular disease; peripheral vascular disease;  
 KW Alzheimer's disease; Niemann-Pick disease; Huntington's disease;  
 KW X-linked adrenoleukodystrophy; cancer; gene therapy; genetic diagnosis;  
 KW prognosis; prophylaxis; drug screening; transgenic animal; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200055318-A2.  
 PN  
 XX 21-SEP-2000.  
 PD  
 XX  
 XX 15-MAR-2000; 2000WO-IB000532.  
 PF  
 XX  
 XX 15-MAR-1999; 99US-0124702P.  
 PR  
 XX 08-JUN-1999; 99US-0138048P.  
 PR  
 XX 17-JUN-1999; 99US-0139600P.  
 PR  
 XX 01-SEP-1999; 99US-0151977P.  
 PR  
 XX (UYBR-) UNIV BRITISH COLUMBIA.  
 PA (XENO-) XENON BIORESEARCH INC.  
 PA  
 XX Hayden MR, Wilson AR, Pimstone SN;  
 PI  
 XX WPI; 2000-587528/55.  
 DR  
 XX New ABC1 polypeptide is useful for treating diseases associated with ABC1  
 PT biological activity, e.g. Alzheimer's disease, Huntington's disease and  
 PT cancer.  
 PT  
 XX Example; Fig 11; 229pp; English.  
 PS  
 XX The invention relates to the human ABC1 cholesterol transporter protein  
 CC (B38082) and to nucleic acid sequences (C69120) which encode it. ABC1 is  
 CC a member of the ATP-binding cassette (ABC transporter) superfamily of  
 CC proteins, and plays a crucial role in cholesterol transport, particularly  
 CC intracellular cholesterol trafficking in monocytes and fibroblasts, being  
 CC involved in cholesterol efflux from the cell. The gene encoding ABC1 is  
 CC located on chromosome 9q31, and mutations in this gene are associated  
 CC with two genetic HDL (high density lipoprotein) deficiency disorders,  
 CC Tangier disease (TD) and familial HDL deficiency (FHA). These diseases  
 CC are distinguishable in that TD is an autosomal recessive disorder, while  
 CC FHA is inherited as an autosomal dominant trait. Low levels of HDL ("good  
 CC cholesterol") in the blood correlate with a high risk of cardiovascular  
 CC disease, particularly coronary artery disease, but also cerebrovascular  
 CC disease, coronary restenosis, and peripheral vascular disease.  
 CC Conversely, a high level of HDL has protective effects against  
 CC cardiovascular disease. The invention provides genetic constructs and  
 CC transgenic cells and non-human animals comprising human ABC1 nucleic  
 CC acids, and methods of gene therapy for the treatment or prevention of  
 CC cardiovascular disease comprising the administration of an expression  
 CC vector encoding ABC1 or an active fragment thereof. The invention also  
 CC encompasses compounds which mimic ABC1 activity, compounds which  
 CC stimulate ABC1 expression and methods of screening for such compounds. It  
 CC further relates to methods for determining whether a patient has an  
 CC increased risk for cardiovascular disease due to polymorphisms in the  
 CC ABC1 gene. Human ABC1 proteins and nucleotides can be used to treat or  
 CC prevent cardiovascular disease, especially coronary artery disease,  
 CC cerebrovascular disease, coronary restenosis or peripheral vascular  
 CC disease. They may also be used in the treatment of diseases associated  
 CC with ABC1 biological activity, such as Alzheimer's disease, Niemann-Pick  
 CC disease, Huntington's disease, X-linked adrenoleukodystrophy and cancer.  
 CC The invention specifically excludes proteins with the exact amino acid  
 CC sequences of GenBank Accession No: CAA10005.1 and X75926, and the nucleic  
 CC acid with the exact sequence as GenBank Accession No: AJ012376.1. The  
 CC present sequence represents a polymorphic site of the human ABC1 gene  
 XX  
 SQ Sequence 21 BP; 2 A; 6 C; 9 G; 4 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.4; DB 1; Length 21;

Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 497 ACACGCTGGCGTGG 514  
Db 1 ACACGCTGGCGTGG 18

RESULT 898  
AA73573/C  
ID AAA73573 standard; DNA; 21 BP.  
XX AC AAA73573;  
XX AC  
DT 29-NOV-2000 (first entry)  
XX AC  
DE Forward PCR primer for loblolly pine locus RIPPR11.  
XX  
XX PCR primer; loblolly pine; Simple Sequence Repeat; SSR;  
KW microsatellite DNA repeat; genetic marker; mapping; inheritance study;  
KW population genetics study; plant breeding programme; ss.  
XX  
OS Pinus taeda.  
XX  
XX WO200042210-A2.  
XX  
PD 20-JUL-2000.  
XX  
PF 06-JAN-2000; 2000WO-US000325.  
XX  
PR 15-JAN-1999; 99US-00232884.  
PR 19-JAN-1999; 99US-00232785.  
XX  
XX (INTO ) INT PAPER CO.  
PA (ECHT/) ECHT C S.  
PA (NELS/) NELSON C D.  
PA (USDA ) US SEC OF AGRIC.  
XX  
PI Echt CS, Nelson CD;  
XX  
XX WPI; 2000-482836/42.  
XX  
XX Polynucleotide having simple sequence repeat useful as markers in plants  
PT for genetic characterization e.g. genetic mapping study, an inheritance  
PT study of a commercially important trait in a plant breeding program.  
XX  
PS Claim 6; Page 21; 57pp; English.

XX The present invention relates to loblolly pine polynucleotides with one  
CC or more Simple Sequence Repeats (SSRs) (see AAA74205-A74322). SSRs are  
CC also known as microsatellite DNA repeats. The SSRs are useful as genetic  
CC markers for genetic mapping, population genetics studies and inheritance  
CC studies in various plant breeding programmes. The present sequence is a  
CC PCR primer used for detecting the presence of a SSR locus in a pine  
CC genomic DNA sample  
XX  
XX Sequence 21 BP; 2 A; 6 C; 4 G; 9 T; 0 U; 0 Other;  
SQ

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3575 AAAGCTTGGGGAAGCC 3592  
Db 18 AAAGCTTGGGGAAGCC 1

RESULT 899  
AAF92948  
ID AAF92948 standard; DNA; 21 BP.  
XX  
XX AAF92948;  
AC  
XX

DT 17-MAY-2001 (first entry)  
XX  
DE Polymorphic sequence for ABC1 polymorphic site #18.  
XX  
KW High density lipoprotein-cholesterol; HDL-C; cardiovascular; ABC1; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200115676-A2.  
XX  
PD 08-MAR-2001.  
XX  
PF 01-SEP-2000; 2000WO-IB001492.  
XX  
PR 01-SEP-1999; 99US-0151977P.  
PR 15-MAR-2000; 2000US-00526193.  
PR 23-JUN-2000; 2000US-0213958P.  
XX  
XX (UYBR-) UNIV BRITISH COLUMBIA.  
PA (XENO-) XENON GENETICS INC.  
XX  
PI Hayden MR, Brooks-Wilson AR, Pimstone SN, Clee SM;  
XX  
XX WPI; 2001-244356/25.  
XX  
XX Treating a lower than normal high density lipoprotein-cholesterol (HDL-C)  
PT level, a higher than normal triglyceride level, or a cardiovascular  
PT disease, by administering a compound that modulates LXR- or RXR-mediated  
PT transcriptional activity.  
XX  
XX Disclosure; Fig 4; 317pp; English.  
XX  
XX The present invention relates to a method for treating a patient  
CC diagnosed as having a lower than normal high density lipoprotein-  
CC cholesterol (HDL-C) level, a higher than normal triglyceride level, or a  
CC cardiovascular disease, involving administering a compound that modulates  
CC LXR- or RXR-mediated transcriptional activity or ABC1 expression or  
CC activity. The LXR gene product may be used in an assay to identify  
CC compounds useful for the treatment of a disease or condition selected  
CC lower than normal HDL cholesterol level, a higher than normal  
CC triglyceride level, and a cardiovascular disease  
XX  
XX Sequence 21 BP; 2 A; 6 C; 9 G; 4 T; 0 U; 0 Other;  
SQ

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 497 ACACGCTGGCGTGG 514  
Db 1 ACACGCTGGCGTGG 18

RESULT 900  
AAH89131  
ID AAH89131 standard; DNA; 21 BP.  
XX  
XX AAH89131;  
AC  
XX  
XX Query Match 0.4%; Score 16.4; DB 1; Length 21;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DT 09-SEP-2004 (revised)  
DT 27-FEB-2002 (first entry)  
XX  
XX Human polymorphic oligonucleotide U63963 fragment #13.  
XX  
XX Human; single nucleotide polymorphic; SNP; forensic science;  
KW paternity testing; phenotypic trait; genetic mapping; animal breeding;  
KW plant breeding; ds.  
XX  
XX Homo sapiens.  
OS Unidentified.  
XX  
XX Key Location/Qualifiers  
FH variation 11  
FT

FT /\*tag= a  
 FT /standard\_name= "single nucleotide polymorphism"

PN WO200134840-A2.

XX 17-MAY-2001.

XX 10-NOV-2000; 2000WO-US030766.

XX 10-NOV-1999; 99US-0164596P.

PA (GLAXO) GLAXO GROUP LTD.

PA (AFFY.) AFFYMETRIX INC.

PI Au K, Chen J, Patil N, Thomas D;

XX WPI; 2001-335945/35.

XX New polymorphic sites derived from the human genome are useful to  
 PT determine sites correlating with phenotypic traits, particularly disease,  
 PT and also in forensics and paternity testing.

XX Claim 87; Page 14; 43pp; English.

XX The present invention relates to human oligonucleotides comprising a  
 CC single nucleotide polymorphic site (SNP: AAH89797-AAH89219). The present  
 CC sequence is one such oligonucleotide. The oligonucleotides can be used in  
 CC forensics, paternity testing, correlation of polymorphisms with  
 CC phenotypic traits, genetic mapping of phenotypic traits and marker  
 CC assisted breeding of animals and crop plants

CC Revised record issued on 09-SEP-2004 : Correction to Feature Table Key

XX Sequence 21 BP; 3 A; 7 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1820 TCCTGCTCTGGGAGATCT 1837

DB 4 TCCTCTCTGGGAGATCT 21

RESULT 901

ADD44681/c  
 ID ADD44681 standard; DNA; 21 BP.

XX AC ADD44681;

XX 15-JAN-2004 (first entry)

XX DNA encoding pLC671 partial sequence with insert #1.

XX human; tumour necrosis factor alpha; vascular inflammation; anti-TNF;  
 KW tumour necrosis factor; cA2; Kawasaki's pathology;  
 KW disseminated intravascular coagulation; atherosclerosis; ds; gene.

XX Synthetic.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 10..21

FT /\*tag= a

XX US2003181695-A1.

XX 25-SEP-2003.

XX 21-FEB-2003; 2003US-00371961.

XX 18-MAR-1991; 91US-00670827.

PR 18-MAR-1992; 92US-00853606.

PR 11-SEP-1992; 92US-00943852.  
 PR 29-JAN-1993; 93US-00010406.  
 PR 02-FEB-1993; 93US-00013413.  
 PR 04-FEB-1994; 94US-00192093.  
 PR 04-FEB-1994; 94US-00192102.  
 PR 04-FEB-1994; 94US-00192861.  
 PR 18-OCT-1994; 94US-00324799.  
 PR 11-DEC-1995; 95US-00570674.  
 PR 12-AUG-1998; 98US-00133119.  
 PR 08-JAN-2001; 2001US-00756398.

XX (UUNY) UNIV NEW YORK STATE.

XX Le J, Vilcek J, Daddona P, Ghraiveb J, Knight D, Siegel S;

PI P-PSDB; ADD44680.

DR WPI; 2003-831022/77.

XX Treating a vascular inflammatory pathology, e.g. Kawasaki's pathology,  
 PT comprises administering an anti-Tumor Necrosis Factor (TNF) chimeric  
 PT antibody which competitively inhibits binding of TNF to a monoclonal  
 PT antibody.

XX Disclosure; SEQ ID NO 28; 100pp; English.

XX The invention relates to a method of treating a vascular inflammatory  
 CC pathology in a human, comprising administering a single or divided 0.5-15  
 CC mg/kg dose at least once every 1-6 weeks of an anti-tumour necrosis  
 CC factor (TNF) chimeric antibody which competitively inhibits binding of  
 CC TNF to monoclonal antibody cA2. The invention is used to treat a vascular  
 CC inflammatory pathology particularly Kawasaki's pathology or disseminated  
 CC intravascular coagulation or atherosclerosis. The present sequence  
 CC represents DNA encoding the pLC671 partial sequence with insert #1.

XX Sequence 21 BP; 5 A; 1 C; 8 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1506 CTCCTTCGACACCTGCAA 1523

DB 19 CTCCTTCGACACCTGCAA 2

RESULT 902

ADD64185/c  
 ID AAD64185 standard; DNA; 21 BP.

XX AC AAD64185;

XX 12-FEB-2004 (first entry)

XX pLC871 plasmid partial DNA fragment #2.

XX Human; joint inflammation; tumour necrosis factor; TNF; joint stiffness;  
 KW rheumatoid arthritis; systemic lupus erythematosus; diabetes mellitus;  
 KW angioedema; autoimmune pathology; graft versus host disease; cachexia;  
 KW scleroderma; infection; circulatory collapse; inflammatory disease;  
 KW inflammatory bowel disease; neurodegenerative disease; sepsis syndrome;  
 KW Crohn's disease; ulcerative colitis; multiple sclerosis; angiogenesis;  
 KW Huntington's disease; Alzheimer's disease; cancer-related angiogenesis;  
 KW lymphoma; infantile haemangioma; alcohol-induced hepatitis; cytostatic;  
 KW ocular neovascularisation; antiinflammatory; dermatological; neotropic;  
 KW immunosuppressive; neuroprotective; hepatotropic; antiangiogenic;  
 KW chimeric; gene; ds.

XX Chimeric - Homo sapiens.

OS Chimeric - Unidentified.

XX Key Location/Qualifiers

FT misc\_feature 1..7

FT /\*tag= a

FT misc\_feature /note= "Leader intron"  
FT 8. .18  
FT /tag= b  
FT /note= "Encodes incomplete leader peptide"  
FT 10. .21  
FT /tag= c  
FT /product= "Peptide encoded by pLC871 partial DNA  
FT fragment"  
FT /note= "No start and stop codon"  
FT /partial  
FT misc\_feature 18. .19  
FT /tag= d  
FT /note= "Signal peptidase cleavage site"  
FT  
XX US2003198634-A1.  
XX  
XX 23-OCT-2003.  
XX  
XX 21-FEB-2003; 2003US-00371443.  
XX  
PR 18-MAR-1991; 91US-00670827.  
PR 18-MAR-1992; 92US-00853606.  
PR 11-SEP-1992; 92US-00943852.  
PR 29-JAN-1993; 93US-00010406.  
PR 02-FEB-1993; 93US-00013413.  
PR 04-FEB-1994; 94US-00192093.  
PR 04-FEB-1994; 94US-00192102.  
PR 04-FEB-1994; 94US-00192861.  
PR 18-OCT-1994; 94US-00324799.  
PR 11-DEC-1995; 95US-00570674.  
PR 12-AUG-1998; 98US-00133119.  
PR 08-JAN-2001; 2001US-00756398.  
XX  
XX (UYNV ) UNIV NEW YORK STATE.  
XX  
XX Le J, Vilcek J, Daddona P, Ghraryeb J, Knight D, Siegel S;  
XX WPI; 2003-852770/79.  
XX P-PSDB; ABW02408.  
XX  
XX Use of anti-tumor necrosis factor (TNF) chimeric antibody for treating  
XX e.g. joint inflammation or joint stiffness, infections, inflammatory  
XX diseases, neurodegenerative disease, or malignant pathologies.  
XX  
XX Example 26; SEQ ID NO 28; Opp; English.  
XX  
XX The invention relates to a novel method of treating joint inflammation in  
XX humans. The method involves administering an anti-tumour necrosis factor  
XX (TNF) chimeric antibody or its fragment, which competitively inhibits  
XX binding of TNF to monoclonal antibody CA2. The anti-TNF antibodies are  
XX useful for treating joint inflammation or joint stiffness associated with  
XX rheumatoid arthritis or systemic lupus erythematosus. They may also be  
XX used to treat angiogenesis, such as in the treatment of a VEGF-mediated  
XX disease or to treat TNF-related pathologies such as acute and chronic  
XX autoimmune pathologies (e.g. graft versus host disease, diabetes mellitus  
XX or scleroderma, infections (e.g. sepsis syndrome, cachexia or circulatory  
XX collapse), inflammatory diseases (e.g. ulcerative colitis, inflammatory  
XX bowel disease or Crohn's disease), neurodegenerative disease (e.g.  
XX multiple sclerosis, Huntington's disease or Alzheimer's disease),  
XX malignant pathologies (e.g. lymphoma, infantile haemangioma or cancer-  
XX related angiogenesis), alcohol-induced hepatitis and other diseases  
XX related to angiogenesis (e.g. ocular neovascularisation). The present  
XX sequence is pLC871 plasmid partial DNA fragment used in the  
XX exemplification of the invention  
XX  
XX Query Match 0.4%; Score 16.4; DB 1; Length 21;  
XX Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
XX Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1506 CTCCTTGCACACTGCAA 1523  
||||||| |||||||

Db 19 CTCCTTCAACACTGCAA 2  
RESULT 903  
AAD63597/c  
ID AAD63597 standard; DNA; 21 BP.  
XX  
XX AAD63597;  
XX  
XX 12-FEB-2004 (first entry)  
XX  
XX Plasmid pLC871 partial DNA fragment #2.  
XX Human; ulcerative colitis; tumour necrosis factor; antiinflammatory; TNF;  
XX therapy; antiulcer; gastrointestinal; chimeric; gene; ds.  
XX  
XX Chimeric - Homo sapiens.  
XX Chimeric - Unidentified.  
XX  
XX Key Location/Qualifiers  
XX misc\_feature 1. .7  
XX /tag= a  
XX /note= "Leader intron"  
XX 8. .21  
XX /tag= c  
XX /product= "Peptide encoded by pLC871 partial DNA  
XX fragment"  
XX /note= "No start and stop codon"  
XX /partial  
XX misc\_feature 8. .18  
XX /tag= b  
XX /note= "Encodes incomplete leader peptide"  
XX 18. .19  
XX /tag= d  
XX /note= "Signal peptidase cleavage site"  
XX  
XX US2003198641-A1.  
XX  
XX 23-OCT-2003.  
XX  
XX 04-MAR-2003; 2003US-00379866.  
XX  
XX 18-MAR-1991; 91US-00670827.  
XX 18-MAR-1992; 92US-00853606.  
XX 11-SEP-1992; 92US-00943852.  
XX 29-JAN-1993; 93US-00010406.  
XX 02-FEB-1993; 93US-00013413.  
XX 04-FEB-1994; 94US-00192093.  
XX 04-FEB-1994; 94US-00192102.  
XX 04-FEB-1994; 94US-00192861.  
XX 18-OCT-1994; 94US-00324799.  
XX 11-DEC-1995; 95US-00570674.  
XX 12-AUG-1998; 98US-00133119.  
XX 08-JAN-2001; 2001US-00756398.  
XX  
XX (UYNV ) UNIV NEW YORK STATE.  
XX (CENZ ) CENTOCOR INC.  
XX  
XX Le J, Vilcek J, Daddona P, Ghraryeb J, Knight D, Siegel S;  
XX WPI; 2003-852774/79.  
XX P-PSDB; ABW02043.  
XX  
XX Treating human ulcerative colitis by administration of a tumor necrosis  
XX factor (TNF)-inhibiting amount of an anti-TNF chimeric antibody that  
XX competitively inhibits binding of TNF to monoclonal antibody CA2.  
XX  
XX Example 26; Fig 29; Opp; English.  
XX  
XX The present invention relates to a method of treating ulcerative colitis  
XX in a human in need. The method involves administering a tumour necrosis  
XX factor (TNF)-inhibiting amount of an anti-TNF chimeric antibody that  
XX competitively inhibits binding of TNF to monoclonal antibody CA2. The

CC methods and compositions are useful for treating ulcerative colitis in  
CC humans. The present sequence is pLC671 plasmid partial DNA fragment used  
CC in the exemplification of the invention  
XX  
SQ Sequence 21 BP; 5 A; 1 C; 8 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches .17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1506 CTCCTTCGACACCTGCAA 1523  
DB 19 CTCCTTCACACCTGCAA 2

RESULT 904  
ADG27455/c  
ID ADG27455 standard; DNA; 21 BP.  
XX  
AC ADG27455;  
XX  
DT 26-FEB-2004 (first entry)  
XX  
DE pLC671 partial sequence with insert DNA #1.  
XX  
KW psoriatic arthritis; chimeric antibody; pLC671; human; ds; gene.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
XX US2003204066-A1.  
PN  
PD  
XX  
XX 30-OCT-2003.  
XX  
XX 21-FEB-2003; 2003US-00371962.  
XX

PR 18-MAR-1991; 91US-00670827.  
PR 18-MAR-1992; 92US-00853606.  
PR 11-SEP-1992; 92US-00943852.  
PR 29-JAN-1993; 93US-00010406.  
PR 02-FEB-1993; 93US-00013413.  
PR 04-FEB-1994; 94US-00192093.  
PR 04-FEB-1994; 94US-00192102.  
PR 04-FEB-1994; 94US-00192861.  
PR 18-OCT-1994; 94US-00324799.  
PR 11-DEC-1995; 95US-00570674.  
PR 12-AUG-1998; 98US-00133119.  
PR 08-JAN-2001; 2001US-00756398.  
XX  
XX (UYN ) UNIV NEW YORK STATE.  
XX  
XX Le J, Vilcek J, Daddona P, Ghraryeb J, Knight D, Siegel S;  
XX  
XX WPI; 2003-900677/82.  
XX P-PSDB; ADG27454.  
XX  
XX Treating psoriatic arthritis in a human by administering to the human an  
XX anti-TNF chimeric antibody for a period of time, where the antibody  
XX inhibits binding of TNF to monoclonal antibody CA2.  
XX  
XX Disclosure; SEQ ID NO 28; 100pp; English.  
XX  
XX The invention relates to a method of treating psoriatic arthritis in a  
XX human which comprises administering to the human an anti-tumour necrosis  
XX factor (TNF) chimeric antibody for a period of time, where the antibody  
XX inhibits binding of TNF to monoclonal antibody CA2. The method is useful  
XX in treating psoriatic arthritis. The present sequence represents the  
XX pLC671 partial sequence with insert DNA.  
XX

XX Sequence 21 BP; 5 A; 1 C; 8 G; 7 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1506 CTCCTTCGACACCTGCAA 1523  
DB 19 CTCCTTCACACCTGCAA 2

RESULT 905  
ADM83174/c  
ID ADM83174 standard; DNA; 21 BP.  
XX  
AC ADM83174;  
XX  
DT 03-JUN-2004 (first entry)  
XX  
DE pLC671 vector peptide encoding DNA #1.  
XX  
KW Tumour necrosis factor-alpha; TNF-alpha; pharmaceutical; diagnostic;  
KW TNF-mediated pathology; therapy; gene; ds.  
XX  
OS Unidentified.  
XX

XX Key Location/Qualifiers  
XX Intron 1..7  
XX /\*tag= a  
XX FT /\*note= "Leader intron"  
XX FT 8..21  
XX FT /\*tag= b  
XX FT /\*note= "Leader sequence"  
XX FT 10..21  
XX FT /\*tag= c  
XX FT /\*product= "pLC671 vector peptide"  
XX FT /\*partial  
XX FT /\*note= "No start and stop codon"  
XX

US2003175837-A1.

18-SEP-2003.

02-JUL-2001; 2001US-00897724.

18-MAR-1991; 91US-00670827.

11-SEP-1992; 92US-00853606.

29-JAN-1993; 93US-00010406.

02-FEB-1993; 93US-00013413.

04-FEB-1994; 94US-00192093.

(UYN-) UNIV NEW YORK MEDICAL CENT.

Le J, Vilcek J, Daddona P, Ghraryeb J, Knight D, Siegel S;

WPI; 2003-863846/80.

P-PSDB; ADM83173.

Anti-idiotypic antibodies that bind specifically to chimeric or humanized

antibodies that binds to human Tumor Necrosis Factor (TNF)alpha, useful

for detecting TNFalpha in samples and for diagnosing TNFalpha mediated

diseases.

Example XXIV; Fig 29; 90pp; English.

The present invention relates to anti-human tumour necrosis factor (TNF) -

alpha antibodies, peptides and their encoding nucleic acids. The

invention is useful in pharmaceutical and diagnostic compositions and

production and in treating TNF-mediated pathologies. The present sequence

is pLC671 vector peptide encoding DNA used in the invention.

Query Match 0.4%; Score 16.4; DB 1; Length 21;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1506 CTCCTTCGACACCTGCAA 1523  
Db 19 CTCCTTCACACCTGCAA 2

RESULT 906  
ADJ97999  
ID ADJ97999 standard; DNA; 21 BP.  
XX  
AC ADJ97999;  
XX  
DT 06-MAY-2004 (first entry)  
XX  
DE Human Flk-1/KDR DNA sequence, a target for siRNA inhibition SeqID 772.  
XX  
KW human; ss; short interfering RNA; siRNA; angiogenesis;  
KW vascular endothelial growth factor; VEGF; VEGF receptor; Flt-1;  
KW Flk-1/KDR; kinase domain region; diabetic retinopathy;  
KW age-related macular degeneration; inflammatory disease; psoriasis;  
KW rheumatoid arthritis; cancer; breast; retinoblastoma; Wilms tumor;  
KW lymphoma; cytostatic; antidiabetic; ophthalmological; antiinflammatory;  
KW antipsoriatic; antirheumatic; antiarthritic.  
XX  
OS Homo sapiens.  
XX  
PN WO2004009769-A2.  
XX  
PD 29-JAN-2004.  
XX  
XX 18-JUL-2003; 2003WO-US022444.  
XX  
PF 24-JUL-2002; 2002US-0398417P.  
PR 14-NOV-2002; 2002US-00294228.  
XX  
XX (UYPE-) UNIV PENNSYLVANIA.  
XX  
XX Tolentino MJ, Reich SJ;  
XX  
XX WPI; 2004-203472/19.  
DR  
XX  
XX Novel short interfering RNA (siRNA) comprises sense and antisense RNA  
XX strands, useful for inhibiting expression of human vascular endothelial  
XX growth factor mRNA, for treating angiogenic disease, e.g. diabetic  
XX retinopathy and cancer.  
XX  
XX Disclosure; SEQ ID NO 772; 218pp; English.

This invention relates to novel compositions that comprise short  
interfering RNA (siRNA) molecules, which can be used to inhibit  
angiogenesis. Specifically, it refers to siRNAs that target and cause  
RNAi-induced degradation of mRNA from human vascular endothelial growth  
factor (VEGF), the VEGF receptor (Flt-1) and the Flk-1/KDR (kinase domain  
region) genes, as well as mutants derived thereof. The present invention  
describes sense and antisense RNA strands that form an RNA duplex and  
bind to the target mRNA, such that expression is inhibited and the target  
degraded. As such, siRNA administered in combination with a therapeutic  
agent is useful for treating diseases associated with angiogenesis and  
the overexpression of VEGF, which include diabetic retinopathy, age-  
related macular degeneration, inflammatory disease, psoriasis and  
rheumatoid arthritis. Furthermore, it can be used to treat various  
cancers including breast, retinoblastoma, Wilms tumor and lymphoma.  
Accordingly, these compositions exhibit cytostatic, antidiabetic,  
CC ophthalmological, antiinflammatory, antipsoriatic, antirheumatic and  
CC antiarthritic activities. This oligonucleotide is a human Flk-1/KDR DNA  
XX oligo, a target for siRNA inhibition of the invention.

Seq Sequence 21 BP; 5 A; 3 C; 8 G; 5 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.4; DB 1; Length 21;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1584 GGGCATGGAGTACTTGGC 1601  
Db 3 GGGCATGGAGTCTTGGC 20

RESULT 907  
AAZ23807  
ID AAZ23807 standard; DNA; 22 BP.  
XX  
AC AAZ23807;  
XX  
DT 18-JAN-2000 (first entry)  
XX  
DE Human Kv6.2 DNA containing an intron/exon boundary.  
XX  
KW Kv6.2; potassium channel protein; Kv2.1; myocardium; hippocampus; stroke;  
KW propafenone; voltage-dependent potassium channel; therapy; treatment;  
KW class IC anti-arrhythmic; cardiovascular disease; nervous system disease;  
KW antihypertensive; cardioprotectant; learning disorder; memory disorder;  
KW neurodegenerative disorder; epilepsy; ischemia; Parkinson's disease;  
KW Alzheimer's disease; ss.  
XX  
OS Homo sapiens.  
XX  
PN DE19841413-C1.  
XX  
PD 23-SEP-1999.  
XX  
PF 06-AUG-1998; 98DE-01041413.  
PR 06-AUG-1998; 98DE-01041413.  
XX  
XX (GENI-) FORSCHUNGSGESELLSCHAFT GENION MBH.  
XX  
PI Netzer R, Pongs O;  
XX  
XX WPI; 1999-519712/44.  
DR P-PSDB; AAY50345.  
XX  
XX New potassium channel protein, Kv6.2, used to screen for specific  
XX modulators, potentially useful e.g. as antiarrhythmic agents.  
PT  
XX Disclosure; Page 22; 42pp; German.

This invention describes a novel potassium channel protein (I) Kv6.2.  
This protein forms, with the protein Kv2.1, voltage-dependent potassium  
channels that are expressed preferentially in the myocardium and  
hippocampus and have high affinity for propafenone. The channels are used  
to identify specific modulators which are potentially useful as  
therapeutic agents, particularly as class IC anti-arrhythmics, but more  
generally agents for treating cardiovascular or nervous system diseases,  
e.g. antihypertensives or cardioprotectants, or for treating learning and  
memory disorders or neurodegenerative disorders such as epilepsy.  
ischemia, stroke, or Parkinson's or Alzheimer's diseases. Nucleic acid  
that encodes (I) is used for recombinant production of (I), particularly  
to generate cells for drug screening. (I) is also used to raise specific  
antibodies. This sequence encodes a fragment of the human Kv6.2 protein  
which corresponds to an intron/exon boundary

Seq Sequence 22 BP; 4 A; 4 C; 13 G; 1 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.4; DB 1; Length 22;  
Best Local Similarity 94.4%; Pred. No. 1.2e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 850 GCCGAGGAGGAGCTGGTG 867  
Db 1 GCCGAGGAGGAGCGGTG 18

RESULT 908  
ADF87858/c  
ID ADF87858 standard; DNA; 22 BP.

```

XX ADF87858;
XX
XX DT 26-FEB-2004 (first entry)
XX
XX DE Single nucleotide polymorphism detection primer, SEQ ID NO 1441.
XX
XX KW human; single nucleotide polymorphism; microarray; side effect; ss;
XX KW primer; PCR.
XX
XX OS Synthetic.
XX OS Homo sapiens.
XX
XX PN JP2003235571-A.
XX
XX PD 26-AUG-2003.
XX
XX PF 12-FEB-2002; 2002JP-00034717.
XX
XX PR 12-FEB-2002; 2002JP-00034717.
XX
XX PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
XX DR WPI; 2003-820454/77.
XX
XX PT Novel polynucleotide useful for detecting single nucleotide polymorphisms
XX PT in human gene.
XX
XX PS Claim 2; SEQ ID NO 1441; 704pp; Japanese.
XX
XX CC The invention relates to a novel polynucleotide isolated and purified
XX CC from a human gene having any one of 935 fully defined sequences as given
XX CC in specification, or a sequence having a base substitution. The invention
XX CC further relates to: an oligonucleotide containing single nucleotide
XX CC polymorphisms; a PCR primer set chosen from the combination of two DNA
XX CC fragments from any one of 1220 fully defined sequences as given in
XX CC specification; a labelling probe containing the SNP containing oligo; and
XX CC a microarray equipped with the SNP containing oligo. The isolated human
XX CC gene of the invention is useful for detecting the single nucleotide
XX CC polymorphisms in human gene. The isolated human gene is also useful for
XX CC diagnosis of disease and determination of side effect to a medical agent.
XX CC The isolated human gene is also effective in detecting single nucleotide
XX CC polymorphisms in a human gene. This polynucleotide sequence represents
XX CC one of the PCR primers used in the single nucleotide polymorphism
XX CC detection method of the invention.
XX
XX SQ Sequence 22 BP; 10 A; 8 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 22;
Best Local Similarity 94.4%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2334 CGTGTGTGTGTGTGTGTG 2351
DB 19 CTTGTGTGTGTGTGTGTG 2

RESULT 909
AAQ88807
ID AAQ88807 standard; cDNA to mRNA; 23 BP.
XX
XX AC AAQ88807;
XX
XX DT 25-MAR-2003 (revised)
XX DT 27-APR-1995 (first entry)
XX
XX DE BoPCar I, bovine parathyroid calcium receptor PCR primer.
XX
XX KW BoPCar I; bovine parathyroid calcium receptor; hyperparathyroidism; ss.
XX
XX OS Synthetic.
XX
XX PN WO9418959-A1.

```

```

XX 01-SEP-1994.
XX
XX PF 23-FEB-1993; 93WO-US001642.
XX
XX PR 23-FEB-1993; 93WO-US001642.
XX
XX PA (BGHM ) BRIGHAM & WOMENS HOSPITAL.
XX PA (NPSP-) NPS PHARM INC.
XX
XX PI Nemeth EF, Brown EM, Hebert SC, Van Wagenen BC, Balandrin MF;
XX PI Fuller FH, Del Mar EG;
XX
XX DR WPI; 1994-293958/36.
XX
XX PT Compan. contg. partly new calci-mimetic and calcilytic cpds. - for
XX PT treating parathyroidism, paget's disease etc. and for diagnosis, also new
XX PT ion receptors and associated nucleic acid, antibodies and transgenic
XX PT animals.
XX
XX PS Disclosure; Page 100; 283pp; English.
XX
XX CC AAQ88807 was used in combination with AAQ88808 as primers for the PCR
XX CC amplification of BoPCar I, bovine parathyroid calcium receptor, which was
XX CC used to test the effectiveness of new calci-mimetics that mimics the
XX CC action of extracellular Ca ions. These calci-mimetics can be used in the
XX CC treatment of a variety of diseases associated with abnormal levels of Ca
XX CC in cells, blood and plasma, specifically hyperparathyroidism. (Updated on
XX CC 25-MAR-2003 to correct PN field.)
XX
XX SQ Sequence 23 BP; 2 A; 6 C; 2 G; 6 T; 0 U; 7 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 23;
Best Local Similarity 70.0%; Pred. No. 1.3e+03;
Matches 14; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 921 CTTCTTCTGTGTCAATCTGG 940
DB 3 CTWCTTCTGTGTSAMCTSG 22

RESULT 910
AAQ94426/C
ID AAQ94426 standard; DNA; 23 BP.
XX
XX AC AAQ94426;
XX
XX DT 25-MAR-2003 (revised)
XX DT 01-NOV-1995 (first entry)
XX
XX DE Human Rse rPTK primer.
XX
XX KW RSE; receptor protein tyrosine kinase; rPTK; diagnostic; therapy;
XX KW neurodegenerative disease; Alzheimer disease; Parkinson disease;
XX KW kidney disease; primer; polymerase chain reaction; PCR; ss.
XX
XX OS Synthetic.
XX
XX PN WO9514776-A1.
XX
XX PD 01-JUN-1995.
XX
XX PF 15-NOV-1994; 94WO-US013214.
XX
XX PR 23-NOV-1993; 93US-00157563.
XX PR 20-DEC-1993; 93US-00170558.
XX
XX PA (GETH ) GENENTECH INC.
XX PA (NEWB-) NEW ENGLAND DEACONESS HOSPITAL.
XX
XX PI Godowski PJ, Mark MR, Scadden DT;
XX
XX DR WPI; 1995-206933/27.

```

XX Human and murine receptor protein tyrosine kinase(s) and corresp. DNA -  
PT for stimulation of cell growth and differentiation e.g. for treatment of  
PT neurodegenerative and kidney diseases.  
XX Example 1; Page 57; 119pp; English.  
XX Primers given in AAQ94423-26, based on conserved sequences of tyrosine  
CC kinases. were used to amplify fragments of tyrosine kinase encoding genes  
CC from cDNA prepared from human brain RNA as an initial step toward the  
CC isolation of a new rTPK gene, Res (AAQ94421). (Updated on 25-MAR-2003 to  
XX correct PN field.)  
XX Sequence 23 BP; 8 A; 6 C; 4 G; 3 T; 0 U; 2 Other;  
SQ Query Match 0.4%; Score 16.4; DB 1; Length 23;  
Best Local Similarity 77.3%; Pred. No. 1.3e+03;  
Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
QY 1801 GACGCTCTGGTCCTTGGGGTCC 1822  
||:|||||||  
Db 23 GAGTGTGGTCTTGGGAATTC 2  
RESULT 911  
ABX76679  
ID ABX76679 standard; DNA; 23 BP.  
XX AC ABX76679;  
XX DT 04-APR-2003 (first entry)  
XX DE Mouse heavy chain variable region PCR primer VH7 back #1.  
XX KW Botulinum neurotoxin type A; BoNT/A; ss; PCR; primer; mouse; scFv;  
XX antibody; botulism; antibacterial; single chain antibody; immunoglobulin.  
XX OS Mus sp.  
XX PN US2002155114-A1.  
XX PD 24-OCT-2002.  
XX PF 31-AUG-1998; 98US-00144886.  
XX PR 31-AUG-1998; 98US-00144886.  
XX (MARK/) MARKS J D.  
XX (AMER/) AMERSDORFER P.  
XX Marks JD, Amersdorfer P;  
XX WPI; 2003-182618/18.  
XX Novel antibody that specifically binds and neutralizes botulinum  
PT neurotoxin type A useful for neutralizing botulinum neurotoxin and  
PT treating botulism.  
XX Example 1; Page 17; 31pp; English.  
XX The invention relates to an isolated antibody that specifically binds to  
CC an epitope specifically bound by an antibody expressed by a clone such as  
CC clone S25, C25, C39, IC6 and clone IF3, where the antibody binds to and  
CC neutralises botulinum neurotoxin type A (BoNT/A). Also included are a  
CC polypeptide comprising BoNT/A neutralising epitope comprising an epitope  
CC which is specifically bound by the antibody, where the polypeptide is not  
CC a full-length botulinum neurotoxin H<sub>3</sub> fragment and making an anti-BoNT/A  
CC antibody that neutralises BoNT/A (by contacting several antibodies with  
CC an epitope specifically bound by an antibody expressed by any of the  
CC novel clones and isolating an antibody that specifically binds to the  
CC epitope). The antibody is useful for neutralising a BoNT/A, by contacting  
CC botulinum neurotoxin type A with the antibody comprising VH CDR (heavy  
CC chain variable region complementarity determining region) and with a

CC second anti-BoNT/A antibody which comprises a VH CDR, where the second  
CC antibody binds to a different epitope than the first anti-BoNT/A  
CC antibody. The antibody is useful in the treatment of pathologies  
CC associated with botulinum neurotoxin poisoning, for rapid  
CC detection/diagnosis of botulism and in the detection and/or  
CC quantification of BoNT/A in a biological sample obtained from an organism  
CC which is indicative of a Clostridium botulinum infection of the organism.  
CC The present sequence is a PCR primer used to amplify mouse immunoglobulin  
CC genes for isolation/expression of the single chain antibodies (scFv) of  
CC the invention  
XX Sequence 23 BP; 4 A; 2 C; 10 G; 5 T; 0 U; 2 Other;  
SQ Query Match 0.4%; Score 16.4; DB 1; Length 23;  
Best Local Similarity 77.3%; Pred. No. 1.3e+03;  
Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
QY 853 GAGGAGGAGCTGGTGAGGCTG 874  
||:|||||||  
Db 1 GAGTGAGAGCTGGTGAGTCTG 22  
RESULT 912  
ABZ83680/C  
ID ABZ83680 standard; DNA; 23 BP.  
XX AC ABZ83680;  
XX DT 14-MAY-2003 (first entry)  
XX DE Toxicologically relevant human PCR primer #839.  
XX KW Toxicologically relevant gene; toxicological response; PCR primer; ss.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO2003016500-A2.  
XX PD 27-FEB-2003.  
XX PF 16-AUG-2002; 2002WO-US026514.  
XX PR 16-AUG-2001; 2001US-0313080P.  
XX (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY INC.  
XX Neft RE, Dunn RT, Adkins K, Pickett GG, Kier LD, Schweizer K;  
XX Alen P;  
XX WPI; 2003-268322/26.  
XX Determining a toxicological response to an agent, useful for screening of  
PT drugs, comprises comparing the expression profile of one or more human  
PT toxic response genes to a reference gene expression profile indicative of  
PT toxicity.  
XX Claim 1; Page 258; 455pp; English.  
XX The present invention describes a method (M1) for determining a  
CC toxicological response to an agent, which comprises comparing the  
CC expression profile of one or more human toxic response genes to a  
CC reference gene expression profile indicative of toxicity, and so  
CC determining the presence of a toxic response to the agent. Also  
CC described: (1) an array comprising one or more polynucleotides selected  
CC from the genes corresponding to the partial sequences given in ABZ82842  
CC ; and (2) determining if a gene putatively identified to be a toxic  
CC response gene plays a role on toxic response pathways by determining the  
CC expression profile of the gene after exposure of cells or a human subject  
CC to a known toxic pharmaceutical or industrial agent, comprising: (a)  
CC exposing cells to an agent or isolating cells from a human subject who  
CC was exposed to an agent; (b) obtaining the test gene expression profile



CC for a putatively identified toxic response gene after exposure to a known  
 CC toxic pharmaceutical or industrial agent; and (c) comparing the test  
 CC profile to the expression profile of a gene with a similar function or  
 CC comparing the test profile to the expression profile of that gene after  
 CC exposure to other known toxic compounds. The methods are useful for  
 CC predicting and determining toxicological responses on a cellular, organ  
 CC or system level. The arrays comprising the human genes are useful for  
 CC toxicological screening of drugs, pharmaceutical compounds and chemicals  
 XX  
 SQ Sequence 23 BP; 3 A; 10 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 23;  
 Best Local Similarity 94.4%; Pred. No. 1.3e+03;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 251 TGGCAAGAGCTGCTGG 268

Db 19 TGGCAAGAGCTGCTGG 2

RESULT 913

ADO58024  
 ID ADO58024 standard; DNA; 23 BP.

AC ADO58024;

DT 12-AUG-2004 (first entry)

DE B cell VH/VL region cloning half nested PCR primer, HUVHBCK5.

XX B cell; surface immunoglobulin; Ig; binding site; antigen; human CD28;  
 KW closed system; detection laser-beam; catcher tube;  
 KW electrochemical device; fluorescence activated cell sorter; FACS;  
 KW antibody variable region; primer; ss; human.

XX Homo sapiens.

OS WO2004044584-A1.

PN 27-MAY-2004.

XX 12-NOV-2003; 2003WO-EP012664.

XX 13-NOV-2002; 2002EP-00025335.

XX (MICR-) MICROMET AG.

XX Baeuerle P, Hoffmann P, Weinberger S, Kischel R;

XX WPI; 2004-449579/42.

XX Identifying a B cell carrying a surface immunoglobulin molecule having a  
 PT binding site for an antigen of interest, useful for constructing  
 PT therapeutic antibodies, comprises contacting a sample with the antigen  
 PT and a receptor.

XX Example 5; SEQ ID NO 24; 156pp; English.

XX The invention relates to a novel method for identifying a B cell carrying  
 CC a surface immunoglobulin (Ig) molecule having a binding site for an  
 CC antigen of interest. The method comprises contacting a sample putatively  
 CC containing the B cell with the antigen of interest and with a receptor  
 CC specifically binding to the Ig molecule, and assessing the presence of  
 CC the detectable signal. The invention further comprises: an antibody  
 CC generated by the method above which is specific for human CD28 or  
 CC comprising an amino acid(s) sequence(s) given in the specification,  
 CC and/or are encoded by a nucleic acid sequence(s) also given in the  
 CC specification; and a device for assessing the presence of a detectable  
 CC signal defined above, where the device comprises a closed system for the  
 CC detection laser-beam and a catcher tube, and where the B cell of interest  
 CC can be collected as a single cell by means of an electrochemical device,  
 CC which is triggered by an electric signal generated by the fluorescence  
 CC activated cell sorter (FACS) device, where the electrochemical device

CC moves the nozzle of the steady catcher tube liquid stream for a  
 CC programmed time over a collecting tube, microtiter plate or other  
 CC container after a B cell is sorted. The method is useful for identifying  
 CC a B cell carrying a surface Ig molecule having a binding site for an  
 CC antigen of interest. The method is also useful for cloning of antibody  
 CC variable regions from the identified B cells, which may subsequently be  
 CC employed in the construction of proteins such as antibodies or its  
 CC fragments or derivatives useful in therapeutic approaches. The method is  
 CC useful as an alternative to phage display for the gain of antibodies or  
 CC its fragments. This polynucleotide sequence represents a primer used in  
 CC the exemplification of the invention.

XX Sequence 23 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 2 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 23;

Best Local Similarity 77.3%; Pred. No. 1.3e+03;

Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGAGCTGTGGAGGCTG 874

Db 1 SAGGTGAGCTGTGGARTCTG 22

RESULT 914

ADO58025

ID ADO58025 standard; DNA; 23 BP.

XX ADO58025;

XX 12-AUG-2004 (first entry)

XX B cell VH/VL region cloning half nested PCR primer, HUVHBCK6.

XX B cell; surface immunoglobulin; Ig; binding site; antigen; human CD28;  
 KW closed system; detection laser-beam; catcher tube;  
 KW electrochemical device; fluorescence activated cell sorter; FACS;  
 KW antibody variable region; primer; ss; human.

XX Homo sapiens.

XX WO2004044584-A1.

XX 27-MAY-2004.

XX 12-NOV-2003; 2003WO-EP012664.

XX 13-NOV-2002; 2002EP-00025335.

XX (MICR-) MICROMET AG.

XX Baeuerle P, Hoffmann P, Weinberger S, Kischel R;

XX WPI; 2004-449579/42.

XX Identifying a B cell carrying a surface immunoglobulin molecule having a  
 PT binding site for an antigen of interest, useful for constructing  
 PT therapeutic antibodies, comprises contacting a sample with the antigen  
 PT and a receptor.

XX Example 5; SEQ ID NO 25; 156pp; English.

XX The invention relates to a novel method for identifying a B cell carrying  
 CC a surface immunoglobulin (Ig) molecule having a binding site for an  
 CC antigen of interest. The method comprises contacting a sample putatively  
 CC containing the B cell with the antigen of interest and with a receptor  
 CC specifically binding to the Ig molecule, and assessing the presence of  
 CC the detectable signal. The invention further comprises: an antibody  
 CC generated by the method above which is specific for human CD28 or  
 CC comprising an amino acid(s) sequence(s) given in the specification,  
 CC and/or are encoded by a nucleic acid sequence(s) also given in the  
 CC specification; and a device for assessing the presence of a detectable  
 CC signal defined above, where the device comprises a closed system for the  
 CC detection laser-beam and a catcher tube, and where the B cell of interest

CC can be collected as a single cell by means of an electrochemical device,  
 CC which is triggered by an electric signal generated by the fluorescence  
 CC activated cell sorter (FACS) device, where the electrochemical device  
 CC moves the nozzle of the steady catcher tube liquid stream for a  
 CC programmed time over a collecting tube, microtiter plate or other  
 CC container after a cell is sorted. The method is useful for identifying  
 CC a cell carrying a surface Ig molecule having a binding site for an  
 CC antigen of interest. The method is also useful for cloning of antibody  
 CC variable regions from the identified B cells, which may subsequently be  
 CC employed in the construction of proteins such as antibodies or its  
 CC fragments or derivatives useful in therapeutic approaches. The method is  
 CC useful as an alternative to phage display for the gain of antibodies or  
 CC its fragments. This polynucleotide sequence represents a primer used in  
 CC the exemplification of the invention.

SQ Sequence 23 BP; 3 A; 3 C; 11 G; 3 T; 0 U; 3 Other;

Query Match 0.4%; Score 16.4; DB 1; Length 23;  
 Best Local Similarity 77.3%; Pred. No. 1.3e+03;  
 Matches 17; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 853 GAGGAGGCTGCTGGAGCTG 874

Db 1 GAGGTGAGCTGTGGAGWCY 22

RESULT 915

AAQ27544  
 ID AAQ27544 standard; DNA; 21 BP.

XX AC AAQ27544;

XX 29-JAN-1993 (first entry)

DE PCR Primer T1 corresponds to TKF receptor nts. 619-639.

XX TKF; tumour diagnosis; polymerase chain reaction; anchor PCR;  
 XX fibroblast growth factor; human; Tyrosine Kinase receptor; ss.

OS Synthetic.

XX DB4104240-A.

XX 13-AUG-1992.

XX 12-FEB-1991; 91DE-04104240.

XX 12-FEB-1991; 91DE-04104240.

XX (GEOR-) GEORG-SPEYER-HAUS CHEMOTHERAPEUTISCHES.

XX Holtrich U, Braeuninger A, Strebhardt K, Ruebsamen-Waigmann H;

XX WPI; 1992-277527/34.

XX New tyrosine kinase receptor protein related to FGF receptor proteins -  
 PT and corresponding DNA sequences, used in treatment and diagnosis of lung  
 PT tumours.

XX Example 3; Page 11; 12pp; German.

XX Primer T1 was used with primer P6(2) (see AAQ27540) to PCR-amplify a  
 CC probe suitable for screening a human lung tissue cDNA library for  
 CC identifying a TKF receptor clone. See also AAQ27539-Q27543

SQ Sequence 21 BP; 4 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1603 TCCGAGAGTGATCCACAGG 1623

Db 1 TCCGAGAGTGATCCACCG 21

RESULT 916

AAI63277  
 ID AAT63277 standard; DNA; 21 BP.

XX AC AAT63277;

XX 21-MAY-1997 (first entry)

DE HGF receptor gene upstream primer binds bases 3993-4013.

XX Cornea; proliferation; in vivo; hepatocyte growth factor; injury; PCR;  
 KW keratinocyte growth factor; ocular surgery; epithelium; endothelium;  
 KW expression; receptor; polymerase chain reaction; amplification; primer;  
 KW healing; beta-actin; upstream; downstream; intron; ss.

OS Synthetic.

PN US5589451-A.

XX 31-DEC-1996.

XX 21-SEP-1992; 92US-00947683.

XX 21-SEP-1992; 92US-00947683.

XX (TEXA ) UNIV TEXAS SYSTEM.

XX PI Wilson SE;

XX WPI; 1997-076878/07.

XX Promoting or suppressing corneal cell proliferation - using hepatocyte  
 PT growth factor or calcium ions resp., e.g. for treating corneal injury or  
 PT for preserving corneal tissue prior to transplantation.

XX Example 1; Col 11-12; 25pp; English.

XX The invention relates to methods for promoting corneal cell proliferation  
 CC in vivo by treating the cells with hepatocyte growth factor (HGF) and  
 CC optionally keratinocyte growth factor (KGF). Methods for suppressing  
 CC corneal cell growth include administering Ca ions to the cells. The  
 CC methods are used for the treatment of corneal tissue injury following  
 CC accidental injury, ocular surgery or due to corneal disorders caused by  
 CC abnormal healing processes of the corneal epithelium and endothelium. The  
 CC methods are based on the discovery that corneal tissue can express mRNA  
 CC for HGF, KGF and their respective receptors. The discovery was shown by  
 CC PCR amplification using the primers AAT63273-87. Primers AAT63277-8 were  
 CC used to amplify a 342 bp fragment of the HGF receptor cDNA. This primer  
 CC is the upstream amplification primer and corresponds to bases 3993-4013  
 CC of the HGF receptor gene. The amplified fragment was detected using probe  
 CC AAT63279

SQ Sequence 21 BP; 0 A; 7 C; 6 G; 8 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1807 TGGTCTTTGGGGTCTGCTC 1827

Db 1 TGGTCTTTGGGGTCTGCTC 21

RESULT 917

AAT62925  
 ID AAT62925 standard; DNA; 21 BP.

XX AC AAT62925;

XX 09-JAN-1998 (first entry)

XX Neoplastic disease protein upstream PCR primer.  
DE Liver neoplastic disease; cirrhosis; hepatocellular carcinoma;  
KW adenomatous hyperplasia; adenoma; liver; PCR; primer; ss;  
KW polymerase chain reaction.  
XX Synthetic.  
OS  
XX WO9711968-A2.  
PN  
XX 03-APR-1997.  
PD  
XX 10-SEP-1996; 96WO-US014487.  
PF  
XX 27-SEP-1995; 95US-005333996.  
PR  
XX (CEDA-) CEDARS SINAI MEDICAL CENT.  
PA  
XX Demetrious AA, Ljubimova JY;  
PI  
XX WPI; 1997-212852/19.  
DR  
XX New marker gene for liver neoplastic disease - used for developing  
PT products for the diagnosis and therapy of diseases such as liver  
PT cirrhosis and hepatocellular carcinoma.  
PT  
XX Example 3; Page 27; 34pp; English.  
PS  
XX This PCR primer was used to amplify reverse transcribed cDNA which  
CC encodes a protein that is associated with liver neoplastic diseases, such  
CC as cirrhosis and hepatocellular carcinoma. This cDNA was obtained by  
CC reverse transcription of mRNA extracted from liver samples obtained from  
CC liver biopsy patients. The protein is not found in normal non-neoplastic  
CC livers, and its presence can therefore be used for diagnostic purposes.  
CC Antibodies to this protein have been produced and are expected to have  
CC some use in diagnosis, by detecting the presence or absence of the  
CC protein using, e.g. ELISA assays. The antibodies may also be used in the  
CC prevention and treatment of liver neoplastic diseases. The invention also  
CC includes antisense oligonucleotides, and DNA sequences encoding antisense  
CC oligonucleotides. These components may help in the treatment of liver  
CC neoplastic diseases, by inhibiting disease development  
XX  
SQ Sequence 21 BP; 0 A; 7 C; 6 G; 8 T; 0 U; 0 Other;  
  
Query Match 0.4%; Score 16.2; DB 1; Length 21;  
Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 1807 TGGTCCTTTGGGGTCTGCTC 1827  
Db 1 TGGTCCTTTGGGGTCTGCTC 21  
  
RESULT 918  
AAV05489  
ID AAV05489 standard; DNA; 21 BP.  
XX  
XX AAV05489;  
AC  
XX 01-MAY-1998 (first entry)  
DT  
XX Upstream primer for HGF receptor DNA.  
DE  
XX Inhibition; corneal epithelial cell; differentiation; treatment;  
KW hepatocyte growth factor; HGF; keratinocyte growth factor; KGF; dry eye;  
KW keratoconjunctivitis sicca; PCR primer; receptor; ss.  
XX  
XX Synthetic.  
OS  
XX Homo sapiens.  
XX  
XX US5703047-A.  
PN  
XX

PD 30-DEC-1997.  
XX  
XX 09-MAR-1995; 95US-00400323.  
PF  
XX 21-SEP-1992; 92US-00947683.  
PR  
XX (TEXA ) UNIV TEXAS SYSTEM.  
PA  
XX Wilson SE;  
PI  
XX WPI; 1998-076459/07.  
DR  
XX Inhibition of corneal cell differentiation - by using hepatocyte growth  
PT factor and/or keratinocyte growth factor.  
PT  
XX Example 1; Col 17-18; 36pp; English.  
PS  
XX The present sequence was used in the development of a novel method for  
CC the inhibition of corneal epithelial cell differentiation. The method  
CC comprises contacting the cells with a hepatocyte growth factor (HGF)  
CC and/or keratinocyte growth factor (KGF). When HGF and KGF are both used,  
CC the cells can be contacted with them sequentially or simultaneously. The  
CC HGF and/or KGF is in a timed release delivery system, especially  
CC comprising biodegradable polymer microcapsules. The HGF and/or KGF are  
CC administered topically. The method is used for treating dry eye,  
CC especially keratoconjunctivitis sicca  
XX  
SQ Sequence 21 BP; 0 A; 7 C; 6 G; 8 T; 0 U; 0 Other;  
  
Query Match 0.4%; Score 16.2; DB 1; Length 21;  
Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 1807 TGGTCCTTTGGGGTCTGCTC 1827  
Db 1 TGGTCCTTTGGGGTCTGCTC 21  
  
RESULT 919  
AAV64914/c  
ID AAV64914 standard; DNA; 21 BP.  
XX  
XX AAV64914;  
AC  
XX 15-MAR-1999 (first entry)  
DT  
XX HSV-1 primer Exon 2n.  
DE  
XX HSV-1; latency associated transcript; LAT; LATin;  
KW gene transcript stabilisation; gene expression; gene therapy; PCR;  
KW primer; ss.  
XX  
XX Synthetic.  
OS  
XX Human herpesvirus 1.  
XX  
XX WO9848004-A1.  
PN  
XX 29-OCT-1998.  
PD  
XX 17-APR-1998; 98WO-US007691.  
PF  
XX 18-APR-1997; 97US-0044664P.  
PR  
XX (WIST-) WISTAR INST ANATOMY & BIOLOGY.  
PA  
XX Fraser NW, Zabolotny JM, Krummenacher CF;  
PI  
XX WPI; 1998-609982/51.  
DR  
XX Increasing expression of genes having unstable RNA transcripts,  
PT particularly for gene therapy - using a construct including gene flanked  
PT by intron fragments that include a hairpin next to the intron  
PT branchpoint.  
PT



KW Human; activin A; Pax4 gene; expression; potentiator; insulin;  
 KW pancreatic beta cell; diabetes; PCR primer; ss.  
 XX  
 OS Mus sp.  
 XX  
 PN WO9966073-A1.  
 XX  
 XX 23-DEC-1999.  
 XX  
 XX 15-JUN-1999; 99WO-JP003182.  
 XX  
 XX 16-JUN-1998; 98JP-00167976.  
 PR  
 XX (YAMA ) YAMANOUCHI PHARM CO LTD.  
 PA  
 XX  
 XX Ueda Y;  
 PI  
 XX WPI; 2000-097752/08.  
 DR  
 XX Screening potential Pax4 gene potentiators, used in treatment of, e.g.  
 XX diabetes.  
 PT  
 XX Disclosure; Page 17; 38pp; Japanese.  
 PS  
 XX The present invention describes the a method for screening potential  
 CC inhibitors of the expression of the Pax4 gene by contacting the potential  
 CC inhibitor with pancreatic beta cells and measuring the expression of the  
 CC gene in these cells is new. Substances identified by the screening method  
 CC potentiate the expression of the Pax4 gene in pancreatic beta cells and  
 CC accelerate the expression of insulin gene in those cells. The method can  
 CC be used in the treatment of disorders in which the exhaustion of  
 CC pancreatic beta cells is involved, such as diabetes. The present sequence  
 CC represents a PCR primer which is used in the exemplification of the  
 CC present invention  
 CC  
 XX Sequence 21 BP; 2 A; 6 C; 7 G; 6 T; 0 U; 0 Other;  
 SQ

Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1608 GAAGTGCATCCACAGGACCT 1628  
 |||||  
 Db 21 GAAGCGCATCCACAGGACCT 1

RESULT 923  
 ADC78624/c  
 ID ADC78624 standard; DNA; 21 BP.  
 XX  
 AC ADC78624;  
 XX  
 XX 01-JAN-2004 (first entry)  
 DT  
 DE Human PRO protein-related reverse PCR primer SEQ ID 312.

XX antiinflammatory; antiulcer; cytostatic; antiparkinsonian;  
 KW antitumor; neuroprotective; vasotropic; chemotactic; angiogenic;  
 KW neurotrophic; osteopathic; antiasthmatic; antiarthritic; antineumatic;  
 KW antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;  
 KW thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;  
 KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;  
 KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;  
 KW nerve repair; thrombosis; bone; cartilage formation; angiogenesis;  
 KW asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;  
 KW atherosclerosis; cardiac injury; infertility; premature aging; AIDS;  
 KW diabetes; stroke; gene therapy; transgenic; PRO; human; ss; primer; PCR.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200015796-A2.  
 PN  
 XX 23-MAR-2000.

XX 15-SEP-1999; 99WO-US021090.  
 XX  
 XX 16-SEP-1998; 98WO-US019330.  
 PR  
 XX (GETH ) GENENTECH INC.  
 PA  
 XX  
 XX Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;  
 PI Yuan J;  
 PI  
 XX WPI; 2000-271434/23.  
 DR  
 XX Novel nucleic acids encoding secreted and transmembrane polypeptides with  
 XX homology, e.g. to growth and cancer-associated antigens.  
 PT  
 XX Example 44; SEQ ID NO 312; 355pp; English.  
 PS  
 XX The invention relates to a novel nucleic acid encoding a PRO polypeptide.  
 CC The polypeptides and polynucleotides of the invention may be useful as  
 CC research tools and as therapeutics for treating enterocolitis, Zollinger-  
 CC Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,  
 CC Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal  
 CC scarring and wound healing, nerve repair, thrombosis, bone and/or  
 CC cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple  
 CC sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,  
 CC infertility, premature aging, AIDS, diabetes complications and stroke.  
 CC The molecules may also be utilised during gene therapy procedures and  
 CC transgenic animal production. The current sequence is that of the PCR  
 CC primer of the invention which was used to analyse the human PRO DNA of  
 CC the invention.  
 CC  
 XX Sequence 21 BP; 4 A; 5 C; 8 G; 4 T; 0 U; 0 Other;  
 SQ

Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1254 CATTGACAAAGGACCGGCGCG 1274  
 |||||  
 Db 21 CATTTCCAGGACCTGGCGCG 1

RESULT 924  
 ABX09458/c  
 ID ABX09458 standard; DNA; 21 BP.  
 XX  
 AC ABX09458;  
 XX  
 XX 22-JAN-2003 (first entry)  
 DT  
 DE Arteriosclerosis-detecting probe from HNF1 #4.

XX Arteriosclerosis; diagnosis; hybridisation; synergism; gene therapy;  
 KW mutation; probe; ss.  
 KW  
 XX Homo sapiens.  
 OS  
 XX WO200272882-A2.  
 PN  
 XX 19-SEP-2002.  
 PD  
 XX 13-MAR-2002; 2002WO-EP002780.  
 PF  
 XX 13-MAR-2001; 2001DE-01011925.  
 PR  
 XX (OGHA-) OGHAM GMBH.  
 PA  
 XX Cullen P, Seedorf U;  
 PI  
 XX WPI; 2002-723374/78.  
 DR  
 XX Determining genetic risk of arteriosclerosis, for clinical diagnosis,  
 PT comprises hybridizing patient nucleic acid with an array of probes

PT derived from risk-associated reference genes and their mutations.  
 XX Example 1; Page 126; 146pp; German.  
 PS This invention describes a novel method for determining the genetic risk  
 XX of arteriosclerosis both for clinical diagnosis and for population  
 CC studies. The method comprises: (i) selecting risk-associated reference  
 CC nucleic acid sequences, including their functionally characterizing  
 CC mutations; (ii) applying probes from these sequences, or their  
 CC complements, to a carrier; (iii) hybridising the probes with a nucleic  
 CC acid from (or synthesised from) a patient sample; and (iv) detecting and  
 CC evaluating the hybridisation pattern. The method provides a quick,  
 CC inexpensive and informative diagnosis, and makes possible a  
 CC multifactorial analysis for detecting e.g. synergism between different  
 CC mutations or mutations that when present alone carry no risk but are risk  
 CC -associated in presence of other mutations. The results may be combined  
 CC with known risk-assessment methods to provide a more reliable diagnosis,  
 CC especially important with new therapeutic methods (e.g. gene therapy)  
 CC that are directed against specific genes. All relevant mutations in a  
 CC reference sequence can be screened for in a single test and the method is  
 CC well suited to automation. ABX09147-ABX09676 represent probes used to  
 CC illustrate the method of the invention  
 XX  
 SQ Sequence 21 BP; 2 A; 13 C; 6 G; 0 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 2907 CAGGATGGCCCTGGCGGGG 2927  
 DB 21 CGGGCTGGCCCTGGCGGGG 1  
 RESULT 925  
 ID ACA60810  
 AC ACA60810 standard; DNA; 21 BP.  
 AC ACA60810;  
 DT 01-JUL-2003 (first entry)  
 DE Hamster anti-CD3 epsilon antibody 145-2C11 PCR primer number 7.  
 XX Antibody; PD-1; J43; immunopathy; neurodegenerative disease;  
 KW Parkinson's disease; Parkinson's syndrome; Huntington's disease;  
 KW Machado-Joseph disease; amyotrophic lateral sclerosis; ss; PCR; primer;  
 KW Creutzfeldt-Jakob disease; autoimmune disease; glomerulonephritis;  
 KW arthritis; myocardiopathy-like disease; ulcerative colitis;  
 KW Sjogren's syndrome; Crohn's disease; systemic erythematosis;  
 KW multiple myositis; skin toughening; rheumatic fever; CD3; 145-2C11;  
 KW insulin-dependent diabetes; Behcet's disease; Hashimoto disease;  
 KW periarthritis nodosa; leukoderm vulgaris; Armenian hamster.  
 XX  
 OS Cricetulus migratorius.  
 XX WO2003011911-A1.  
 XX 13-FEB-2003.  
 XX 30-JUL-2002; 2002WO-JP007735.  
 XX 31-JUL-2001; 2001JP-00232303.  
 XX (ONOF) ONO PHARM CO LTD.  
 PA (HONGK) HONGK T.  
 XX Honjo T, Shibayama S, Matsuo M, Yoshida T;  
 XX WPI; 2003-248150/24.  
 DR Substance specific to PD-1, selectively recognizing PD-1 and a related  
 XX cell membrane protein, applicable in developing remedies or preventives  
 PT

PT for diseases caused by immunopathy e.g. autoimmune diseases.  
 XX Example 7; Page 32; 73pp; Japanese.  
 PS The invention relates to a substance comprising a substance recognising  
 XX PD-1 (not defined), a substance recognising a membrane protein present in  
 CC the cell membrane where PD-1 is expressed, and a linker. Also included is  
 CC a drug composition containing an effective dose of a remedy and/or  
 CC preventive for PD-1 related diseases namely immunopathy, e.g.  
 CC neurodegenerative diseases including Parkinson's disease, Parkinson's  
 CC syndrome, Huntington's disease, Machado-Joseph disease, amyotrophic  
 CC lateral sclerosis, and Creutzfeldt-Jakob disease, and autoimmune  
 CC diseases, e.g. glomerulonephritis, arthritis, myocardiopathy-like  
 CC diseases, ulcerative colitis, Sjogren's syndrome, Crohn's disease,  
 CC systemic erythematosis, multiple myositis, skin toughening, rheumatic  
 CC fever, insulin-dependent diabetes, Behcet's disease, Hashimoto disease,  
 CC periarthritis nodosa, and leukoderm vulgaris. A chimeric protein of the  
 CC invention was created comprising the light and heavy chains of the mouse  
 CC anti-PD-1 antibody and the Armenian hamster anti-mouse CD3 (not defined)  
 CC epsilon antibody 145-2C11. The present sequence is a PCR primer used to  
 CC amplify the hamster 145-2C11 cDNA sequence  
 XX  
 SQ Sequence 21 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 853 GAGGAGGAGCTGGTGAGGCT 873  
 DB 1 GAGGTGACGCTGGTGAGGCT 21  
 RESULT 926  
 ID ADI00328/C  
 AC ADI00328;  
 DT 22-APR-2004 (first entry)  
 DE PCR primer SEQ ID 108 used to amplify human PKD-1 exon 15L DNA.  
 XX mutation analysis; PKD; polycystic kidney disease; human; PKD-1; ss; PCR;  
 KW primer.  
 XX Homo sapiens.  
 OS US2003152936-A1.  
 XX 14-AUG-2003.  
 XX 26-FEB-2002; 2002US-00083246..  
 XX 12-OCT-2001; 2001US-0328739P.  
 XX (ATHE-) ATHENA DIAGNOSTICS INC.  
 XX Jones JG, Hennigan AN, Curran JA, Allen SK, Robichaud NJ, Wang J;  
 PI Flynn KE, Garces JA, Palatucci CM;  
 XX WPI; 2003-897708/82.  
 DR Analyzing mutations of a target nucleic acid by detecting heteroduplexes  
 PT from generated duplexes, useful for diagnosing patients affected with  
 PT polycystic kidney disease.  
 XX Disclosure; SEQ ID NO 108; 126pp; English.  
 XX The invention relates to a novel method of mutation analysis of a target  
 CC nucleic acid which comprises incubating a sample having the target  
 CC nucleic acid in a reaction mixture, in the presence of at least one first  
 CC and second nucleic acid, where incubation produces amplified products,  
 CC

CC generating duplexes in the amplified products and detecting the presence  
 CC or absence of a heteroduplex from the duplexes, where its presence  
 CC indicates a potential mutation in the target nucleic acid and its absence  
 CC indicates the absence of mutation in the target nucleic acid. The method  
 CC and compositions of the invention may be useful for analysing mutation  
 CC and diagnosing patients affected with PKD (polycystic kidney disease).  
 CC The current sequence is that of a PCR primer of the invention which was  
 CC used to amplify human polycystic kidney disease PKD-1 DNA.  
 XX  
 SQ Sequence 21 BP; 4 A; 5 C; 9 G; 3 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 2239 CACCCTGCTGCTGGTCACAG 2259  
 DB 21 CACCTTGCTGCTGCCACAG 1  
 RESULT 927  
 ADH47876  
 ID ADH47876 standard; DNA; 21 BP.  
 XX  
 AC ADH47876;  
 XX  
 DT 25-MAR-2004 (first entry)  
 XX  
 DE PCR primer for human Ig VH3 DNA framework region 1 (FR1).  
 XX  
 XX Ig-unmutated; chronic lymphocytic leukaemia; CLL;  
 KW small lymphocytic lymphoma; SLL; ZAP-70; cytotostatic; human; Ig VH;  
 KW framework region 1; FR1; PCR; primer; ss.  
 XX  
 XX Homo sapiens.  
 XX  
 XX US2003203416-A1.  
 XX  
 PD 30-OCT-2003.  
 XX  
 PF 03-DEC-2002; 2002US-00309548.  
 XX  
 XX 25-APR-2002; 2002US-0375966P.  
 PR  
 XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 XX  
 PI Staudt LM, Rosenwald A, Wilson W, Barry TS, Wiestner A;  
 XX  
 XX WPI; 2004-141578/14.  
 DR  
 XX Detecting Ig-unmutated chronic lymphocytic leukemia in a subject involves  
 PT determining over expression of ZAP-70 molecule in a subject.  
 PT  
 XX Example 2; Page 13; 32pp; English.  
 PS  
 XX The present invention relates to a method of detecting Ig-unmutated  
 CC chronic lymphocytic leukaemia (CLL)/small lymphocytic lymphoma (SLL) in a  
 CC subject. The method involves determining whether the subject  
 CC overexpresses ZAP-70, which is used as a marker for CLL/SLL. Also  
 CC disclosed is a kit for detecting overexpression of ZAP-70 in a subject,  
 CC preferably human. The present sequence represents a PCR primer used in  
 CC the examples of the present invention.  
 XX  
 SQ Sequence 21 BP; 3 A; 3 C; 10 G; 5 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 854 AGGAGGAGCTGGTGGAGGCTG 874  
 DB 1 AGGTGACGCTGGTGGAGGCTG 21

RESULT 928  
 ADJ97642  
 ID ADJ97642 standard; DNA; 21 BP.  
 XX  
 AC ADJ97642;  
 XX  
 DT 06-MAY-2004 (first entry)  
 XX  
 DE Human Flt-1 DNA sequence, a target for siRNA inhibition SeqID 415.  
 XX  
 KW human; ss; short interfering RNA; siRNA; angiogenesis;  
 KW vascular endothelial growth factor; VEGF; VEGF receptor; Flt-1;  
 KW Flk-1/KDR; kinase domain region; diabetic retinopathy;  
 KW age-related macular degeneration; inflammatory disease; psoriasis;  
 KW rheumatoid arthritis; cancer; breast; retinoblastoma; Wilm's tumour;  
 KW lymphoma; cytotostatic; anti-diabetic; ophthalmological; antiinflammatory;  
 KW anti-psoriatic; anti-rheumatic; antiarthritic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004009769-A2.  
 XX  
 XX 29-JAN-2004.  
 PD  
 XX  
 PF 18-JUL-2003; 2003WO-US022444.  
 XX  
 PR 24-JUL-2002; 2002US-0398417P.  
 PR  
 PR 14-NOV-2002; 2002US-00294228.  
 XX  
 XX (UYPE-) UNIV PENNSYLVANIA.  
 PA  
 XX Tolentino MJ, Reich SJ;  
 PI  
 XX WPI; 2004-203472/19.  
 DR  
 XX Novel short interfering RNA (siRNA) comprises sense and antisense RNA  
 PT strands, useful for inhibiting expression of human vascular endothelial  
 PT growth factor mRNA, for treating angiogenic disease, e.g. diabetic  
 PT retinopathy and cancer.  
 XX  
 PS Disclosure; SEQ ID NO 415; 218pp; English.  
 XX  
 CC This invention relates to novel compositions that comprise short  
 CC interfering RNA (siRNA) molecules, which can be used to inhibit  
 CC angiogenesis. Specifically, it refers to siRNAs that target and cause  
 CC RNAi-induced degradation of mRNA from human vascular endothelial growth  
 CC factor (VEGF), the VEGF receptor (Flt-1) and the Flk-1/KDR (kinase domain  
 CC region) genes, as well as mutants derived thereof. The present invention  
 CC describes sense and antisense RNA strands that form an RNA duplex and  
 CC bind to the target mRNA, such that expression is inhibited and the target  
 CC degraded. As such, siRNA administered in combination with a therapeutic  
 CC agent is useful for treating diseases associated with angiogenesis and  
 CC the overexpression of VEGF, which include diabetic retinopathy, age-  
 CC related macular degeneration, inflammatory disease, psoriasis and  
 CC rheumatoid arthritis. Furthermore, it can be used to treat various  
 CC cancers including breast, retinoblastoma, Wilm's tumour and lymphoma.  
 CC Accordingly, these compositions exhibit cytostatic, antidiabetic,  
 CC ophthalmological, antiinflammatory, antipsoriatic, anti-rheumatic and  
 CC antiarthritic activities. This oligonucleotide is a human Flt-1 DNA  
 CC oligo, a target for siRNA inhibition of the invention.  
 XX  
 SQ Sequence 21 BP; 5 A; 5 C; 6 G; 5 T; 0 U; 0 Other;  
 Query Match 0.4%; Score 16.2; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1609 AAGTGCATCCACAGGACCTG 1629  
 DB 1 AAGTGCATTCATCGGACCTG 21

RESULT 929  
ADJ97640  
ID ADJ97640 standard; DNA; 21 BP.  
XX  
AC ADJ97640;  
XX  
DT 06-MAY-2004 (first entry)  
XX  
DE Human Flt-1 DNA sequence, a target for siRNA inhibition SeqID 413.  
XX  
KW human; ss; short interfering RNA; siRNA; angiogenesis;  
KW vascular endothelial growth factor; VEGF; VEGF receptor; Flt-1;  
KW Flk-1/KDR; kinase domain region; diabetic retinopathy;  
KW age-related macular degeneration; inflammatory disease; psoriasis;  
KW rheumatoid arthritis; cancer; breast; retinoblastoma; Wilms' tumour;  
KW lymphoma; cytostatic; antidiabetic; ophthalmological; antiinflammatory;  
KW antipsoriatic; antirheumatic; antiarthritic.  
XX  
OS Homo sapiens.  
XX  
FN WO2004009769-A2.  
XX  
PD 29-JAN-2004.  
XX  
PF 18-JUL-2003; 2003WO-US022444.  
XX  
PR 24-JUL-2002; 2002US-0398417P.  
PR 14-NOV-2002; 2002US-00294228.  
XX  
PA (UYPE-) UNIV PENNSYLVANIA.  
XX  
PI Tolentino MJ, Reich SJ;  
XX  
DR WPI; 2004-203472/19.  
XX  
PT Novel short interfering RNA (siRNA) comprises sense and antisense RNA  
PT strands, useful for inhibiting expression of human vascular endothelial  
PT growth factor mRNA, for treating angiogenic disease, e.g. diabetic  
PT retinopathy and cancer.  
XX  
PS Disclosure; SEQ ID NO 413; 218pp; English.  
XX  
CC This invention relates to novel compositions that comprise short  
CC interfering RNA (siRNA) molecules, which can be used to inhibit  
CC angiogenesis. Specifically, it refers to siRNAs that target and cause  
CC RNAi-induced degradation of mRNA from human vascular endothelial growth  
CC factor (VEGF), the VEGF receptor (Flt-1) and the Flk-1/KDR (kinase domain  
CC region) genes, as well as mutants derived thereof. The present invention  
CC describes sense and antisense RNA strands that form an RNA duplex and  
CC bind to the target mRNA, such that expression is inhibited and the target  
CC degraded. As such, siRNA administered in combination with a therapeutic  
CC agent is useful for treating diseases associated with angiogenesis and  
CC the overexpression of VEGF, which include diabetic retinopathy, age-  
CC related macular degeneration, inflammatory disease, psoriasis and  
CC rheumatoid arthritis. Furthermore, it can be used to treat various  
CC cancers including breast, retinoblastoma, Wilms' tumour and lymphoma.  
CC Accordingly, these compositions exhibit cytostatic, antidiabetic,  
CC ophthalmological, antiinflammatory, antipsoriatic, antirheumatic and  
CC antiarthritic activities. This oligonucleotide is a human Flt-1 DNA  
CC oligo, a target for siRNA inhibition of the invention.  
XX  
SQ Sequence 21 BP; 6 A; 3 C; 9 G; 3 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.2; DB 1; Length 21;  
Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1574 AGGTGGCCCGGCGATGGAGT 1594  
DB 1 AAGTGGCCAGGCGATGGAGT 21  
RESULT 930

ADL61633/c  
ID ADL61633 standard; RNA; 21 BP.  
XX  
AC ADL61633;  
XX  
DT 03-JUN-2004 (first entry)  
XX  
DE Antisense RNAi DNA-RNA hybrid oligo 2 targeted to human epha2-4.  
XX  
KW predictor set; protein tyrosine kinase biomarker; cytostatic;  
KW antiangiogenic; vasotropic; vulnerable; pharmacogenomic; drug sensitivity;  
KW breast cancer; hypervascular disease; angiogenesis; wound healing scar;  
KW human; ss; antisense; RNAi; interfering RNA; DNA-RNA hybrid; epha2-4.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT misc\_feature 20..21  
FT /\*tag= a  
FT /note= "Deoxyribonucleotide (thymine)"  
XX  
FN WO2004020593-A2.  
XX  
PD 11-MAR-2004.  
XX  
PF 26-AUG-2003; 2003WO-US026491.  
XX  
PR 27-AUG-2002; 2002US-0406385P.  
XX  
PA (BRIM ) BRISTOL-MYERS SQUIBB CO.  
XX  
PI Huang F, Han X, Reeves KA, Amler L, Fairchild CR, Lee FY;  
PI Shaw P;  
XX  
DR WPI; 2004-239171/22.  
XX  
PT New predictor sets with a plurality of polynucleotides and/or  
PT polypeptides whose expression pattern predicts cell response to a  
PT compound that modulates protein tyrosine kinase activity, useful in  
PT treating breast cancer.  
XX  
PS Example 5; SEQ ID NO 557; 649pp; English.  
XX  
CC The invention relates to a novel predictor set comprising a plurality of  
CC polynucleotides and/or polypeptides whose expression pattern is  
CC predictive of the response of cells to treatment with a compound that  
CC modulates protein tyrosine kinase activity or members of the protein  
CC tyrosine kinase pathway. The molecules of the invention demonstrate  
CC cytostatic, antiangiogenic, vasotropic and vulnerary activities and may  
CC be useful in the field of pharmacogenomics, in particular for determining  
CC drug sensitivity and in treating breast cancer, hypervascular diseases,  
CC angiogenesis and scars in wound healing. The current sequence is that of  
CC an antisense RNAi (interfering RNA) DNA-RNA hybrid oligonucleotide which  
CC was targeted to a human protein tyrosine kinase biomarker polynucleotide  
CC of the invention.  
XX  
SQ Sequence 21 BP; 4 A; 4 C; 7 G; 2 T; 4 U; 0 Other;  
Query Match 0.4%; Score 16.2; DB 1; Length 21;  
Best Local Similarity 85.7%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 448 AACTACACCTGGCTGGAG 468  
DB 21 AACTACACCTTCACCGTGAG 1  
RESULT 931  
AAT30421/c  
ID AAT30421 standard; DNA; 22 BP.  
XX  
AC AAT30421;  
XX



```

DT 28-JAN-1997 (first entry)
XX Compound simple sequence repeat primer (AT)6.5(GT)4.5.
DE
XX
XX Detection; polymorphism; perfect compound simple sequence repeat;
KW adaptor directed primer; genome; genetic; fingerprinting;
KW amplified fragment length polymorphism assay; microsatellite region;
KW genetic trait marking; germplasm comparisons; compound; ss.
XX
XX Synthetic.
XX WO9617082-A2.
XX
XX 06-JUN-1996.
XX
XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 6 A; 0 C; 5 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATATA 2844
DB 21 ACACACATATATATATATA 1
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

RESULT 932
AAT30422
ID AAT30422 standard; DNA; 22 BP.
XX
XX AAT30422;
AC
XX
XX 28-JAN-1997 (first entry)
DT
XX Compound simple sequence repeat primer (AT)8.5(GT)3.5.
DE
XX
XX Detection; polymorphism; perfect compound simple sequence repeat;
KW adaptor directed primer; genome; genetic; fingerprinting;
KW amplified fragment length polymorphism assay; microsatellite region;
KW genetic trait marking; germplasm comparisons; compound; ss.
XX
XX Synthetic.
XX WO9617082-A2.
XX
XX 06-JUN-1996.
XX
XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 6 A; 0 C; 5 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 8 A; 0 C; 3 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2823 TATATATACATATATATATAT 2843
DB 1 TATATATATATATATATGTGT 21
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

RESULT 933
AAT30422/C
ID AAT30422 standard; DNA; 22 BP.
XX
XX AAT30422;
AC
XX
XX 28-JAN-1997 (first entry)
DT
XX Compound simple sequence repeat primer (AT)8.5(GT)3.5.
DE
XX
XX Detection; polymorphism; perfect compound simple sequence repeat;
KW adaptor directed primer; genome; genetic; fingerprinting;
KW amplified fragment length polymorphism assay; microsatellite region;
KW genetic trait marking; germplasm comparisons; compound; ss.
XX
XX Synthetic.
XX WO9617082-A2.
XX
XX 06-JUN-1996.
XX
XX 21-NOV-1995; 95WO-US015150.
XX
XX 28-NOV-1994; 94US-00346456.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Morgante M, Vogel JM;
XX
XX WPI; 1996-277795/28.
XX
XX Modified amplified fragment length polymorphism assay - for detection of
PT polymorphism esp. in micro:satellite regions.
XX
XX Disclosure; Fig 1c; 173pp; English.
XX
XX Detecting polymorphisms between 2 nucleic acid samples, esp. in
CC microsatellite regions, comprises digesting the nucleic acid to generate
CC fragments, ligating adaptor segments to their ends, amplifying them using
CC primer directed amplification and comparing the prods. to detect
CC differences. The primers used in the amplification comprise a primer
CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor
CC directed primer, comprising a sequence complementary to an adaptor
CC segment. The present sequence is an example of a compound SSR primer. The
CC method represents a modified amplified fragment length polymorphism
CC assay, which is partic. useful for genome fingerprinting, i.e. for
CC genetic trait marking and germplasm comparisons
XX
XX Sequence 22 BP; 8 A; 0 C; 3 G; 11 T; 0 U; 0 Other;
SQ
Query Match 0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

PS Disclosure; Fig 1c; 173pp; English.

XX Detecting polymorphisms between 2 nucleic acid samples, esp. in

CC microsatellite regions, comprises digesting the nucleic acid to generate

CC fragments, ligating adaptor segments to their ends, amplifying them using

CC primer directed amplification and comparing the prods. to detect

CC differences. The primers used in the amplification comprise a primer

CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor

CC directed primer, comprising a sequence complementary to an adaptor

CC segment. The present sequence is an example of a compound SSR primer. The

CC method represents a modified amplified fragment length polymorphism

CC assay, which is partic. useful for genome fingerprinting, i.e. for

CC genetic trait marking and germplasm comparisons

XX

SQ Sequence 22 BP; 8 A; 0 C; 3 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;

Best Local Similarity 85.7%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATATA 2844

Db 21 ACACATATATATATATATATA 1

RESULT 934

AAT30407/c

XX AAT30407; standard; DNA; 22 BP.

AC AAT30407;

DT 28-JAN-1997 (first entry)

XX

DE Compound simple sequence repeat primer (AT) 6.5 (GT) 4.5.

XX

KW Detection; polymorphism; perfect compound simple sequence repeat;

KW adaptor directed primer; genome; genetic; fingerprinting;

KW amplified fragment length polymorphism assay; microsatellite region;

KW genetic trait marking; germplasm comparisons; compound; ss.

XX

OS Synthetic.

XX

PN WO9617082-A2.

PD 06-JUN-1996.

XX

PF 21-NOV-1995; 95WO-US015150.

XX

PR 28-NOV-1994; 94US-00346456.

XX

PA (DUPO ) DU PONT DE NEMOURS & CO E I.

XX

PI Morgante M, Vogel JM;

XX

DR WPI; 1996-277795/28.

XX

PT Modified amplified fragment length polymorphism assay - for detection of

PT polymorphism esp. in micro:satellite regions.

XX

PS Example 2; Page 84; 173pp; English.

XX

CC Detecting polymorphisms between 2 nucleic acid samples, esp. in

CC microsatellite regions, comprises digesting the nucleic acid to generate

CC fragments, ligating adaptor segments to their ends, amplifying them using

CC primer directed amplification and comparing the prods. to detect

CC differences. The primers used in the amplification comprise a primer

CC consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor

CC directed primer, comprising a sequence complementary to an adaptor

CC segment. The present sequence is an example of a compound SSR primer. The

CC method represents a modified amplified fragment length polymorphism

CC assay, which is partic. useful for genome fingerprinting, i.e. for

CC genetic trait marking and germplasm comparisons

XX

SQ Sequence 22 BP; 6 A; 0 C; 5 G; 11 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;

Best Local Similarity 85.7%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2824 ATATATACATATATATATATA 2844

Db 21 ACACATATATATATATATATA 1

RESULT 935

AAZ90067/c

XX AAZ90067; standard; DNA; 22 BP.

AC AAZ90067;

DT 09-MAY-2000 (first entry)

XX

DE Oligonucleotide #1 used in gag-pol expression cassette construction.

XX

KW Gag; pol; retroviral vector construct; gag/pol expression cassette;

KW anticancer; antiviral; immunomodulatory; cytotoxin; prodrug activator;

KW replacement gene; antisense sequence; ribozyme; tumour prevention;

KW viral infection; genetic disorder; ss.

XX

OS Synthetic.

XX

PN US6013517-A.

XX

PD 11-JAN-2000.

XX

PF 05-MAY-1997; 97US-00850961.

XX

PR 09-MAY-1994; 94US-00240030.

PR 09-MAY-1995; 95US-00437465.

PR 06-MAY-1996; 96US-00643411.

PR 26-SEP-1996; 96US-00721327.

XX

PA (CHIR ) CHIRON CORP.

XX

PI Depolo NJ, Chada S, Sauter S, Bodner M, Driver DA, Respass JG;

XX

DR WPI; 2000-159877/14.

XX

PT New retroviral construct, used to produce retroviral particles for gene

PT therapy, containing a gag/pol sequence that includes at least two stop

PT codons, incapable of producing replicable virus by recombination.

XX

PS Example 3; Col 24; 63pp; English.

XX

CC This sequence represents an oligonucleotide used in the construction of

CC gag-pol expression cassettes. The invention relates to a retroviral

CC vector construct which consists of a 5'-long terminal repeat (5'-LTR); a

CC RNA binding site; an origin of second strand DNA synthesis; a 3'-LTR and

CC gag/pol sequences modified to contain two or more stop codons. The

CC invention also relates to a gag/pol expression cassette, and an env

CC expression cassette. The retroviral construct has anticancer, antiviral

CC and immunomodulatory activity. The retroviral constructs are used to

CC produce recombinant retroviral particles for use in gene transfer,

CC particularly gene therapy, e.g. to deliver heterologous sequences that

CC encode cytotoxins, prodrug activators, replacement genes, antisense

CC sequences or ribozymes, immune accessory molecules and viral immunogens,

CC particularly for treatment or prevention of tumours, viral infections and

CC genetic disorders

XX

SQ Sequence 22 BP; 9 A; 3 C; 2 G; 8 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;

Best Local Similarity 85.7%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2819 ATGATATATATATATATATAT 2839

```

Db      11  ||||| ||| |||||
        21  ATGGTATCGATATATATAT 1

RESULT 936
AAH91679/c
ID   AAH91679 standard; DNA; 22 BP.
XX
XX   AAH91679;
AC
XX
XX   09-OCT-2001 (first entry)
DE
XX   Human inflammatory bowel disease associated polymorphic site #754.
XX
XX   Human; inflammatory bowel disease; Crohn's disease; ulcerative colitis;
XX   single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;
XX   chromosome 5q31-33; forensic test; gene therapy; ds.
XX
XX   Homo sapiens.
OS
XX
XX   Key      Location/Qualifiers
FH   misc_feature      8
FT   /tag= a
FT   /note= "SNP, optionally T or A at this position"
XX
XX   WO200142511-A2.
PN
XX
XX   14-JUN-2001.
XX
XX   11-DEC-2000; 2000WO-US033632.
XX
XX   10-DEC-1999; 99US-0170257P.
XX   10-APR-2000; 2000US-0196046P.
XX
XX   (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX   (ELLIS-) ELLIPSIS BIOTHERAPEUTICS CORP.
XX
XX   Daly M, Hudson TJ, Lander ES, Rioux J, Siminovitch K;
XX   WPI; 2001-367874/38.
XX
XX   Testing for the presence of polymorphisms associated with inflammatory
XX   bowel disease, using a hybridization assay.
XX
XX   Claim 1; Page 71; 463pp; English.
XX
XX   The present invention describes a method for detecting the presence of
XX   polymorphisms associated with inflammatory bowel diseases such as
XX   ulcerative colitis and Crohn's disease. The methods can be used to detect
XX   the presence of genetic polymorphisms associated with inflammatory bowel
XX   disease and correlating their occurrence with disease states. They may be
XX   used in this way for phenotypic correlations, forensics, paternity
XX   testing, medicine and genetic analysis. The present sequence is a
XX   polymorphic site described in the exemplification of the invention
XX
XX   Sequence 22 BP; 11 A; 3 C; 0 G; 7 T; 0 U; 1 Other;

Query Match      0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 81.8%; Pred. NO. 1.3e+03;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY   3469  TATCTATATATATAATTATTG 3490
Db      22  TATATATATATATANGTTGTTG 1

RESULT 937
ABK33880/c
ID   ABK33880 standard; DNA; 22 BP.
XX
XX   ABK33880;
AC
XX
XX   08-MAY-2002 (first entry)
DE
XX
XX   human; collagenous matrix; hydroxyallysine cross-link;

Gag/pol expression cassette construction primer #1.
MoMLV; Moloney murine leukaemia virus; mouse; retroviral backbone; LTR;
gag/pol expression cassette; gag; pol; env; integrase; gene therapy; ss;
tumour; cancer; viral infection; immune response; autoimmune response;
graft rejection; cytostatic; antiviral; immunostimulant; PCR; primer;
immunosuppressive; murine leukaemia virus 4070A amphotropic envelope;
bovine growth hormone polyadenylation sequence; long terminal repeat.
Mus sp.
Synthetic.
US6333195-B1.
25-DEC-2001.
07-JAN-2000; 2000US-00479776.
09-MAY-1994; 94US-00240030.
09-MAY-1995; 95US-00437465.
06-MAY-1996; 96US-00643411.
26-SEP-1996; 96US-00721327.
05-MAY-1997; 97US-00850961.
(CHIR ) CHIRON CORP.
Respass JG, Depolo NJ, Chada S, Sauter S, Bodner M, Driver DA;
WPI; 2002-163181/21.
New gag/pol expression cassette, for preparing retroviral particles for
gene therapy, comprises a promoter, a gag/pol gene, and a polyadenylation
sequence, and cannot form a replication competent virus by homologous
recombination.
Example 3; Col 24; 63pp; English.
The invention relates to a gag/pol expression cassette comprising a
promoter, a gag/pol gene (I) and a polyadenylation sequence in which the
5' end of (I) has been modified to contain codons that are degenerate for
gag, or the 3' end of (I) has been deleted without affecting the
biological activity of the encoded integrase. The expression cassette and
similar cassettes that express env protein, are used to produce
recombinant retroviral particles by homologous recombination. These
particles are gene transfer vectors, particularly for gene therapy of
tumours or viral infections, also to induce an immune response, to treat
or prevent diseases, or to suppress graft rejection or immune/autoimmune
responses. This sequence represents an oligonucleotide primer used in
construction of gag/pol expression cassettes of the invention
XX
XX   Sequence 22 BP; 9 A; 3 C; 2 G; 8 T; 0 U; 0 Other;

Query Match      0.4%; Score 16.2; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. NO. 1.3e+03;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY   2819  ATGGTATATATATATATATAT 2839
Db      21  ATGGTATCGATATATATATAT 1

RESULT 938
ADH69177/c
ID   ADH69177 standard; DNA; 22 BP.
XX
XX   ADH69177;
AC
XX
XX   25-MAR-2004 (first entry)
DE
XX   PLOD2 PCR primer #15.
XX
XX   human; collagenous matrix; hydroxyallysine cross-link;

```

allysine cross-link; proteolytic degradation; fibrosis;  
tissue engineering; Bruck syndrome; ss; PCR; primer.

KW

OS Homo sapiens.

XX

PN US2003219852-A1.

XX

XX 27-NOV-2003.

XX

PF 28-JUN-2002; 2002US-00184372.

XX

XX 29-NOV-1999; 99US-00450209.

XX

PA (NEDE ) NEDERLANDSE ORG TOEGEPAST.

XX

PI Bank RA, Van Der Slot AJ, Zuurmond A, Te Koppele JM;

XX

XX WPI; 2004-080749/08.

XX

Obtaining a collagenous matrix with modified resistance against  
proteolytic degradation, for treating a fibrotic condition, comprises  
controlling the ratio of hydroxyallysine to allysine cross-links.

XX

Example 3; Page 12; 25pp; English.

XX

The invention relates to a method of obtaining a collagenous matrix which  
comprises cross-linked collagen molecules, where the resistance of the  
collagenous matrix against proteolytic degradation is controlled by  
controlling the ratio of hydroxyallysine cross-links to allysine cross-  
links in the collagenous matrix. The method is useful for obtaining a  
collagenous matrix comprising cross-linked collagen molecules, where the  
resistance of the collagenous matrix to proteolytic degradation, is  
modulated. The method is useful for treating a fibrotic condition in a  
mammal by administering to the mammal (preferably human) an effective  
amount of a compound or composition which reduces the lysyl hydroxylation  
level of collagen telopeptides and thereby results in a collagenous  
matrix having a decreased ratio of hydroxyallysine cross-links to  
allysine cross-links. The method comprises administration of compound or  
composition that inhibits the activity or production of TGF encoded by a  
PLOD2 gene but not the activity or production of lysyl oxidase. The  
method is useful for treating fibrosis by inhibiting fibrotic processes,  
in tissue engineering or drug delivery. The method provides collagen  
cross-linked by hydroxyallysine cross-links which are more difficult to  
degrade than collagen cross-linked by allysine. The present sequence  
represents a PLOD2 PCR primer.

XX

Sequence 22 BP; 10 A; 9 C; 2 G; 1 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;

Best Local Similarity 85.7%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2325 GTGTGTCGCGTGTGTGTG 2345

QY

||||| ||| ||||| |||||

DB

21 GTGTGTCGCGTGTGTGTG 1

RESULT 939

ADL57201

ID ADL57201 standard; DNA; 22 BP.

XX

AC ADL57201;

XX

DT 03-JUN-2004 (first entry)

XX

Human NOV1 forward real time quantitative PCR primer SEQ ID NO:146.

XX

ss; PCR; primer; real time quantitative PCR; human; antidiabetic;

KW

anorectic; cardiac; hypotensive; antiarteriosclerotic; anorectic;

KW

virucide; antibacterial; fungicide; protozoacide; nootropic;

KW

neuroprotective; antiparkinsonian; anticonvulsant; osteopathic;

KW

antiarthritic; antiinflammatory; dermatological; antiasthmatic;

KW

complement factor I precursor; matrix metalloproteinase-15 precursor;

KW

MDC3; T-lymphocyte surface antigen Ly-9 precursor;

KW

fibroblast growth factor-21; FGF-21;

KW

alpha-2 macroglobulin-like polypeptide variant;

KW

antileukoproteinase 1 precursor; LIV-1; nuclear hormone receptor NOR-1;

XX

transmembrane protein-like; beta-neoendorphin-dynorphin precursor.

OS

Homo sapiens.

XX

WO2004022723-A2.

PN

18-MAR-2004.

XX

09-SEP-2003; 2003WO-US028141.

PF

09-SEP-2002; 2002US-0409145P.

XX

10-SEP-2002; 2002US-0409544P.

PR

12-SEP-2002; 2002US-0410320P.

PR

16-SEP-2002; 2002US-0411060P.

PR

23-SEP-2002; 2002US-0412766P.

PR

24-SEP-2002; 2002US-0412825P.

PR

25-SEP-2002; 2002US-0413767P.

PR

30-SEP-2002; 2002US-0413342P.

PR

30-SEP-2002; 2002US-0414832P.

XX

(CURA-) CURAGEN CORP.

PA

Zhong M, Guo X, Anderson DW, Ort T, Padigaru M, Rieger DK;

XX

WPI; 2004-315567/29.

XX

New isolated NOVX polypeptides and polynucleotides, useful for

PT

preventing, diagnosing or treating NOVX-associated disorders, e.g.

PT

osteoarthritis, obesity, atherosclerosis, cancer, Parkinson's disease,

PT

asthma, or infections.

XX

Example 12; SEQ ID NO 146; 214pp; English.

XX

The invention relates to a novel isolated polypeptide (NOVX) comprising a  
mature form of any of the 37 amino acid sequences fully defined in the  
specification. A polypeptide of the invention has antidiabetic,  
anorectic, cardiac, hypotensive, antiarteriosclerotic, anorectic,  
virucide, antibacterial, fungicide, protozoacide, nootropic,  
neuroprotective, antiparkinsonian, anticonvulsant, osteopathic, and  
antiarthritic, antiinflammatory, dermatological, antiasthmatic, and  
antilipaemic activity. A polynucleotide of the invention may have a use  
in gene therapy. The polypeptides, nucleic acid molecules and antibodies  
are useful in the manufacture of a medicament for treating a syndrome  
associated with a human disease, preferably a NOVX-associated disorder.  
The nucleic acid molecules, polypeptides and antibodies are useful for  
treating, preventing or diagnosing diseases such as metabolic disorders,  
diabetes, obesity, infectious diseases (viral, bacterial, fungal,  
helminthic, and protozoal), anorexia, cancer, cardiovascular diseases  
(hypertension, atherosclerosis), neurodegenerative disorders, Alzheimer's  
disease, Parkinson's disease, epilepsy, immune disorders  
(osteoarthritis), haematopoietic disorders, inflammatory skin disorders,  
asthma, and various dyslipidaemias. The nucleic acids and polypeptides  
may also be used as targets for the identification of small molecules  
that modulate or inhibit e.g. neurogenesis, cell differentiation, cell  
proliferation, haematopoiesis, wound healing and angiogenesis, in gene  
therapy, in generation of antibodies that bind immunospecifically to NOVX  
substances for use in therapeutic or diagnostic methods. The nucleic  
acids are further used as hybridisation probes, in chromosome mapping,  
tissue typing, preventive medicine, and pharmacogenomics. The NOVX  
polypeptides of the invention show homology to certain known human  
proteins: NOV1a-1t show homology to fibroblast growth factor receptor 4  
(FGFR4); NOV2a shows homology to complement factor I precursor; NOV3a  
shows homology to matrix metalloproteinase-15 precursor; NOV4a shows  
homology to MDC3; NOV5a-5c show homology to T-lymphocyte surface antigen  
Ly-9 precursor; NOV6a-6m show homology to fibroblast growth factor-21  
(FGF-21); NOV7a-7c show homology to alpha-2 macroglobulin-like  
polypeptide variant; NOV8a-8g show homology to antileukoproteinase 1  
precursor; NOV9a-9i show homology to LIV-1 protein; NOV10a shows homology

CC

CC to nuclear hormone receptor NOR-1; NOV12a-11j show homology to  
 CC transmembrane protein-like; NOV12a-12c show homology to beta-neoendorphin  
 CC -dynorphin precursor. The present sequence represents a PCR primer used  
 CC in the exemplification of the invention.

SQ Sequence 22 BP; 9 A; 6 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;  
 Best Local Similarity 85.7%; Pred. No. 1.3e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1293 CGTCAGATGCTCAAGACCA 1313  
 ||| ||||| ||||| |||||  
 Db 1 CGTCAGATGCTCAAGACAA 21

## RESULT 940

ADQ75599  
 ID ADQ75599 standard; DNA; 22 BP.

XX AC ADQ75599;

DT 09-SEP-2004 (first entry)

XX Clock gene intron PCR primer, SEQ ID 7.

XX Clock gene; DNA fingerprint; PCR; primer; ss.

XX Unidentified.

XX KR2003075818-A.

PN 26-SEP-2003.

XX 21-MAR-2002; 2002KR-00015277..

XX 21-MAR-2002; 2002KR-00015277.

XX (KOOC-) KOREA OCEAN RES & DEV INST.

XX Kim WS, Lee YH;

XX WPI; 2004-105148/11.

XX Identification of organism using the intron DNA sequence of the clock  
 gene as DNA fingerprints.

PS Claim 3; SEQ ID NO 7; 19pp; Korean.

XX The present invention relates to a method for identifying an organism  
 CC using the intron sequence of the clock gene as DNA fingerprints. The  
 CC method comprises the steps of: constructing a pair of primers for PCR  
 CC capable of amplifying intron using consecutive nucleotide sequences  
 CC before and after of the clock gene intron; amplifying intron by PCR using  
 CC the pair of primers; sequencing the amplified intron DNA fragments; and  
 CC identifying the organism to analyse the nucleotide sequence of the  
 CC intron. The present sequence is a PCR primer used in the method of the  
 CC invention.

XX Sequence 22 BP; 4 A; 8 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;  
 Best Local Similarity 85.7%; Pred. No. 1.3e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 992 TGGGCTCCCCACCGTGACA 1012  
 ||||| ||||| ||||| |||||  
 Db 2 TGGGCTCCTCCACTGTACACA 22

## RESULT 941

ADP74809/c  
 ID ADP74809 standard; DNA; 22 BP.

XX ADP74809;

DT 23-SEP-2004 (first entry)

DE Trypanosoma brucei TSIF PCR primer.

XX Trypanosoma brucei; trypanosome suppressive immunomodulating factor;  
 KW TSIF; immunomodulating activity; Trypanozoon infection;  
 KW immunosuppressive; gene therapy; immune response; autoimmune disorder;  
 KW PCR; primer; ss.

OS Trypanosoma brucei.  
 OS Synthetic.

XX WO2004056853-A2.

XX 08-JUL-2004.

XX 19-DEC-2003; 2003WO-EP051082.

XX 23-DEC-2002; 2002EP-00080667.

XX (VIBV-) VIB VZW.

XX De Baetselier P, Beschlin A;

XX WPI; 2004-500278/47.

XX New polypeptide derived from Trypanosomes, useful in preparing a  
 PT medicament for suppressing the immune response in a mammal for treating  
 PT autoimmune disorders.

XX Example; Page 28; 54pp; English.

XX The present invention describes a Trypanosoma brucei trypanosome  
 CC suppressive immunomodulating factor (TSIF) protein. The present invention  
 CC also describes: (1) the TSIF protein having the primary structural  
 CC information of amino acids 1-553 of the 833-amino acid sequence of SEQ ID  
 CC NO:2 (ADP74801) or its fragment or allelic variant having  
 CC immunomodulating activity; (2) an isolated polynucleotide comprising a  
 CC 2826 base pair sequence of SEQ ID NO:1 (ADP74800) which encodes the TSIF  
 CC polypeptide; (3) a vector comprising the nucleic acid; (4) a genetically  
 CC engineered host cell comprising the expression vector; and (5) preparing  
 CC a diagnostic assay for detecting the presence of a Trypanozoon infection  
 CC in a mammal. TSIF has immunosuppressive activity, and can be used in gene  
 CC therapy. The TSIF polypeptide or polynucleotide can be used in preparing  
 CC a medicament for suppressing the immune response in a mammal for treating  
 CC autoimmune disorders. The present sequence represents a PCR primer for  
 CC TSIF, which is used in an example from the present invention.

XX Sequence 22 BP; 4 A; 4 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 0.4%; Score 16.2; DB 1; Length 22;  
 Best Local Similarity 85.7%; Pred. No. 1.3e+03;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 603 GGTGTACAGTCAGCGACGCC 623  
 ||||| ||||| ||||| |||||  
 Db 22 GGTATACACTGACGCACCCC 2

RESULT 942  
 AAX34311/c  
 ID AAX34311 standard; DNA; 23 BP.

XX AAX34311;

XX 06-JUL-1999 (first entry)

XX Human oestrogen receptor gene PCR primer #2.

XX Human; oestrogen receptor; ligand; bone resorption; metabolic disorder;

KW cardiovascular disease; cancer; central nervous system; breast; uterine;  
KW osteoporosis; ovarian; prostate; diabetes; Alzheimer's disease; PCR;  
XX primer; amplification; ss.  
XX Synthetic.  
OS Homo sapiens.  
PN WO912961-A1.  
XX 18-MAR-1999.  
PD 04-SEP-1998; 98WO-US018577.  
XX 08-SEP-1997; 97US-0058271P.  
PR 30-SEP-1997; 97US-0060520P.  
PR 30-OCT-1997; 97GB-00022884.  
PR 20-MAR-1998; 98GB-00006032.  
XX (MERI ) MERCK & CO INC.  
XX Wilkinson H;  
PI WPI; 1999-229222/19.  
XX Estrogen receptor useful in ligand identification in medicine.  
XX Example 1; Page 14; 32pp; English.  
XX Primers AAX34310-X34312 were used to PCR amplify and isolated cDNA clones  
CC encoding a human oestrogen receptor (AAX34309). The receptor can be used  
CC to identify ligands that bind to human oestrogen receptor. The ligands  
CC can be used in a method for preventing or treating an oestrogen receptor  
CC mediated disease or condition, such as abnormal bone resorption, a  
CC cardiovascular disease, cancer, metabolic disorders, or central nervous  
CC system disorders. The ligand is especially used to treat osteoporosis,  
CC breast, uterine, ovarian or prostate cancer, diabetes or Alzheimer's  
CC disease  
XX  
XX Sequence 23 BP; 3 A; 10 C; 7 G; 3 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.2; DB 1; Length 23;  
Best Local Similarity 85.7%; Pred. No. 1.4e+03;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 666 GTGTGGCCGCGGACGACACC 686  
DB 23 GTGTGGCCCTGTGCGGACACC 3  
RESULT 943  
AAX76596  
ID AAX76596 standard; DNA; 23 BP.  
XX AAX76596;  
XX 11-AUG-1999 (first entry)  
XX Human sfv library construction PCR primer SEQ ID NO:8.  
XX Human; sfv library; single chain monoclonal antibody fusion reagent;  
KW transcription regulation; screening; diagnosis; HIV; Hepatitis A;  
KW Hepatitis B respiratory syncytial virus; Junin virus; cytomegalovirus;  
KW Herpes simplex virus; rubella; Varicella-Zoster virus; hantavirus;  
KW Epstein-Barr virus; measles; dengue; Ebola inter alia; cancer;  
XX gene therapy; PCR primer; ss.  
XX Synthetic.  
OS Homo sapiens.  
XX WO928502-A1.  
XX 10-JUN-1999.  
XX

PF 28-NOV-1997; 97WO-US021407.  
XX 28-NOV-1997; 97WO-US021407.  
XX (INVI-) INVITROGEN CORP.  
XX Hoeftler JP, Russell M;  
PI WPI; 1999-371138/31.  
XX Antibodies from libraries useful in treating viral infections and cancer.  
XX Claim 23; Page 81; 132pp; English.  
XX The present invention describes methods of screening a DNA construct  
CC library for a single chain monoclonal antibody fusion reagent capable of  
CC binding a transcriptional associated biomolecule in vivo. The antibodies  
CC are useful in treating Hepatitis A and B respiratory syncytial virus,  
CC HIV, Junin virus, Herpes simplex I and II, rubella, cytomegalovirus,  
CC Varicella-Zoster virus, Epstein-Barr virus, measles, hantavirus, dengue,  
CC Ebola inter alia and cancer. Expression vectors that encode the fusion  
CC antibodies may be used in gene therapy. The methods can be used to create  
CC and isolate the fusion antibodies. The monoclonal antibody fusion reagent  
CC can be used to regulate transcription in vivo. AAX76591 to AAX76674  
CC represent specifically claimed PCR primers used in the construction of a  
CC human sfv library  
XX  
XX Sequence 23 BP; 3 A; 4 C; 11 G; 5 T; 0 U; 0 Other;  
Query Match 0.4%; Score 16.2; DB 1; Length 23;  
Best Local Similarity 85.7%; Pred. No. 1.4e+03;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 854 AGGAGGAGCTGTGAGGCTG 874  
DB 2 AGGTGAGCTGTGAGGCTG 22  
RESULT 944  
AAA59845/C  
ID AAA59845 standard; DNA; 23 BP.  
XX AAA59845;  
XX 13-OCT-2000 (first entry)  
XX PCR primer specific for zeta-COP.  
XX Human; capsid-protein; zeta-COP; PCR primer; ss.  
XX Homo sapiens.  
XX CN1248624-A.  
XX 29-MAR-2000.  
XX 22-SEP-1998; 98CN-00119744.  
XX 22-SEP-1998; 98CN-00119744.  
XX (XINH-) XINHANGPU FUDAN GENE ENG CO LTD SHANGHA.  
XX Yu L, Tu Q, Fu Q;  
XX WPI; 2000-431993/38.  
XX Novel human capsid protein subunit coding sequence.  
XX Example 1; Page 9; 21pp; Chinese.  
XX This invention relates to a human gene encoding a capsid protein zeta  
CC subunit (zeta-COP). The invention also relates to a zeta-COP protein  
CC sequence. The present sequence represents a PCR primer used to amplify